

# ADEM

ALABAMA  
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



## MAJOR SOURCE OPERATING PERMIT

Permittee: **3M Company**  
Facility Name: **Decatur Plant**  
Facility No.: **712-0009**  
Location: **Decatur, Alabama**

*In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, as amended, Ala. Code 1975, §§22-28-1 to 22-28-23 (2006 Rplc. Vol. and 2007 Cum. Supp.) (the "AAPCA") and the Alabama Environmental Management Act, as amended, Ala. Code 1975, §§22-22A-1 to 22-22A-15, (2006 Rplc. Vol. and 2007 Cum. Supp.) and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.*

*Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.*

Issuance Date: To Be Determined  
Effective Date To Be Determined  
Expiration Date: To Be Determined

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Alabama Department of Environmental Management

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## General Permit Provisos

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<p><b>1. <u>Transfer</u></b></p> <p>This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in Rule 335-3-16-.13(1)(a)5.</p> <p><b>2. <u>Renewals</u></b></p> <p>An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.</p> <p>The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.</p> <p><b>3. <u>Severability Clause</u></b></p> <p>The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivision, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.</p> <p><b>4. <u>Compliance</u></b></p> <p>(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.</p> <p>(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.</p>	<p>Rule 335-3-16-.02(6)</p> <p>Rule 335-3-16-.12(2)</p> <p>Rule 335-3-16-.05(e)</p> <p>Rule 335-3-16-.05(f)</p> <p>Rule 335-3-16-.05(g)</p>

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<p><b>5. <u>Termination for Cause</u></b></p> <p>This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.</p>	<p>Rule 335-3-16-.05(h)</p>
<p><b>6. <u>Property Rights</u></b></p> <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p>	<p>Rule 335-3-16-.05(i)</p>
<p><b>7. <u>Submission of Information</u></b></p> <p>The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.</p>	<p>Rule 335-3-16-.05(j)</p>
<p><b>8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u></b></p> <p>No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.</p>	<p>Rule 335-3-16-.05(k)</p>
<p><b>9. <u>Certification of Truth, Accuracy, and Completeness:</u></b></p> <p>Any application form, reporting, testing, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.</p>	<p>Rule 335-3-16-.07(a)</p>
<p><b>10. <u>Inspection and Entry</u></b></p> <p>Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of</p>	<p>Rule 335-3-16-.07(b)</p>

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<p>Environmental Management and EPA to conduct the following:</p> <ul style="list-style-type: none"> <li>(a) Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit;</li> <li>(b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit;</li> <li>(c) Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit;</li> <li>(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.</li> </ul>	
<p><b>11. <u>Compliance Provisions</u></b></p> <ul style="list-style-type: none"> <li>(a) The permittee shall continue to comply with the applicable requirements, as defined in 335-3-16-.01(e), with which the company has certified that it is already in compliance.</li> <li>(b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.</li> </ul>	<p>Rule 335-3-16-.07(c)</p>
<p><b>12. <u>Compliance Certification</u></b></p> <p>A compliance certification shall be submitted annually within 60 days of the anniversary date of issuance of this permit.</p> <ul style="list-style-type: none"> <li>(a) The compliance certification shall include the following: <ul style="list-style-type: none"> <li>(1) The identification of each term or condition of this permit that is the basis of the certification;</li> <li>(2) The compliance status;</li> <li>(3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with</li> </ul> </li> </ul>	<p>Rule 335-3-16-.07(e)</p>

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<p style="text-align: center;">Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements);</p> <p>(4) Whether compliance has been continuous or intermittent;</p> <p>(5) Such other facts as the Department may require to determine the compliance status of the source;</p> <p>(b) The compliance certification shall be submitted to:</p> <p style="text-align: center;">Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463</p> <p style="text-align: center;">and to:</p> <p style="text-align: center;">Air and EPCRA Enforcement Branch EPA Region IV 61 Forsyth Street, SW Atlanta, GA 30303</p>	
<p><b>13. <u>Reopening for Cause</u></b></p> <p>Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:</p> <p>(a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire.</p> <p>(b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.</p> <p>(c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or</p>	<p>Rule 335-3-16-.13(5)</p>

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<p>conditions of this permit.</p> <p>(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</p> <p><b>14. <u>Additional Rules and Regulations</u></b></p> <p>This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.</p> <p><b>15. <u>Equipment Maintenance or Breakdown</u></b></p> <p>(a) In the case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Director at least twenty-four (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following:</p> <ol style="list-style-type: none"> <li>(1) Identification of the specific facility to be taken out of service as well as its location and permit number;</li> <li>(2) The expected length of time that the air pollution control equipment will be out of service;</li> <li>(3) The nature and quantity of emissions of air contaminants likely to occur during the shutdown period;</li> <li>(4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period;</li> <li>(5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period.</li> </ol> <p>(b) In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p> <p>Rule 335-3-1-.07(1), (2)</p>

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<p>emissions of air contaminants which are above an applicable standard exceeding (1) hour, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director shall be notified when the breakdown has been corrected.</p>	
<p><b>16. <u>Operation of Capture and Control Devices</u></b></p> <p>All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p>
<p><b>17. <u>Obnoxious Odors</u></b></p> <p>This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors at or beyond the property boundaries, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.</p>	<p>Rule 335-3-1-.08</p>
<p><b>18. <u>Fugitive Dust</u></b></p> <p>(a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.</p> <p>(b) Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:</p> <p>(1) By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;</p> <p>(2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created;</p>	<p>Rule 335-3-4-.02</p>

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<p>(3) By paving;</p> <p>(4) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions;</p> <p>Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.</p>	
<p><b>19. <u>Additions and Revisions</u></b></p> <p>Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.</p>	<p>Rule 335-3-16-.13 and .14</p>
<p><b>20. <u>Recordkeeping Requirements</u></b></p> <p>(a) Records of required monitoring information of the source shall include the following:</p> <p>(1) The date, place, and time of all sampling or measurements;</p> <p>(2) The date analyses were performed;</p> <p>(3) The company or entity that performed the analyses;</p> <p>(4) The analytical techniques or methods used;</p> <p>(5) The results of all analyses; and</p> <p>(6) The operating conditions that existed at the time of sampling or measurement.</p> <p>(b) Retention of records of all required monitoring data and support information of the source for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the permit</p>	<p>Rule 335-3-16-.05(c)2</p>

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<p><b>21. <u>Reporting Requirements</u></b></p> <p>(a) Reports to the Department of any required monitoring shall be submitted at least every 6 months. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with Rule 335-3-16-.04(9).</p> <p>(b) Deviations from permit requirements that last greater than one (1) hour shall be reported within 48 hours or 2 working day of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.</p>	<p>Rule 335-3-16-.05(c)3</p>
<p><b>22. <u>Emission Testing Requirements</u></b></p> <p>Before testing is performed, each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.</p> <p>The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.</p> <p>To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter, as necessary:</p> <p>(1) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.</p> <p>(2) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe</p>	<p>Rule 335-3-1-.05(3) and Rule 335-3-1-.04(1)</p> <p>Rule 335-3-1-.04</p>

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<p>cleaning).</p> <p>(3) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity.</p> <p>(4) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.</p> <p>A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.</p> <p>All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.</p>	<p>Rule 335-3-1-.04</p>
<p><b>23. <u>Payment of Emission Fees</u></b></p> <p>Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code R. 335-1-7-.04.</p>	<p>Rule 335-1-7-.04</p>
<p><b>24. <u>Other Reporting and Testing Requirements</u></b></p> <p>Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.</p>	<p>Rule 335-3-1-.04(1)</p>
<p><b>25. <u>Title VI Requirements (Refrigerants)</u></b></p> <p>Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.</p> <p>No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.</p>	<p>335-3-16-.05(a)</p>

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<p>The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the US EPA and the Department as required.</p>	
<p><b>26. <u>Chemical Accidental Prevention Provisions</u></b></p> <p>If a chemical listed in Table 1 of 40 CFR Part 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:</p> <ul style="list-style-type: none"> <li>(a) The owner or operator shall comply with the provisions in 40 CFR Part 68.</li> <li>(b) The owner or operator shall submit one of the following: <ul style="list-style-type: none"> <li>(1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68 § 68.10(a) or,</li> <li>(2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.</li> </ul> </li> </ul>	<p>40 CFR Part 68</p>
<p><b>27. <u>Display of Permit</u></b></p> <p>This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will be made readily available for inspection by any or all persons who may request to see it.</p>	<p>Rule 335-3-14-.01(1)(d)</p>
<p><b>28. <u>Circumvention</u></b></p> <p>No person shall cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.</p>	<p>Rule 335-3-1-.10</p>
<p><b>29. <u>Visible Emissions</u></b></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be</p>	<p>Rule 335-3-4-.01(1)</p>

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<p>determined by 40 CFR Part 60, Appendix A, Method 9,</p> <p>unless otherwise specified in the Unit Specific provisos of this permit.</p>	
<p><b>30. <u>Fuel-Burning Equipment</u></b></p> <p>(a) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.03.</p> <p>(b) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Part 335-3-5-.01.</p>	<p>Rule 335-3-4-.03</p> <p>Rule 335-3-5-.01</p>
<p><b>31. <u>Process Industries – General</u></b></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.04.</p>	<p>Rule 335-3-4-.04</p>
<p><b>32. <u>Averaging Time for Emission Limits</u></b></p> <p>Unless otherwise specified in the permit or as approved by the Department, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.</p>	<p>Rule 335-3-1-.05</p>
<p><b>33. <u>Permit Shield</u></b></p> <p>A permit shield exists under this operating permit in accordance with ADEM Administrative Code R. 335-3-16-.10 in that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance. The permit shield is based on the accuracy of the information supplied in the Appendix to the cover letter of the application for this permit. Under this shield, it has been determined that requirements listed as non-applicable in such appendix are not applicable to this source.</p>	<p>Rule 335-3-16-.10</p>

## Operating Permit Summary No. 1

**Emission Unit No.:** 020, 001

**Company:** 3M Company

**Description:** 53.5 MMBTU/HR NATURAL GAS, NO. 2 AND NO. 6 FUEL OIL FIRED  
BOILER (BOILER #1)

90 MMBTU/HR NATURAL GAS, NO. 2 AND NO 6 FUEL OIL FIRED  
BOILER (BOILER #3)

**Permitted Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
020	Boiler #1	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
001	Boiler #3	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
020	Boiler #1	PM	0.239 lb/MMBTU	335-3-4-.03(1)
001	Boiler #3	PM	0.190 lb/MMBTU	335-3-4-.03(1)
020	Boiler #1	SO <sub>2</sub>	4 lb/MMBTU	335-3-5-.01(1)(b)
001	Boiler #3	SO <sub>2</sub>	4 lb/MMBTU	335-3-5-.01(1)(b)
020	Boiler #1	SO <sub>2</sub>	fuel oil sulfur limit of ≤ 0.7%	335-3-14
001	Boiler #3	SO <sub>2</sub>	fuel oil sulfur limit of ≤ 0.7%	335-3-14
020	Boiler #1	SO <sub>2</sub>	No. 6 fuel oil ash limit of ≤ 0.44%	335-3-14
001	Boiler #3	SO <sub>2</sub>	No. 6 fuel oil ash limit of ≤ 0.44%	335-3-14
020	Boiler #1	HAP	NESHAP Subpart DDDDD	335-3-11-.06(107)
001	Boiler #3	HAP	NESHAP Subpart DDDDD	335-3-11-.06(107)

## Provisos For Boiler #1 and #3

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<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart DDDDD.</li> <li>3. These boilers are subject to the requirements of the National Emission Standard for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16-.03</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(107)</p>
<p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. Boilers #1 and #3 shall not discharge into the atmosphere, particulate of an opacity greater than 20% as determined by a six minute average, except for one 6 minute period in any sixty minute period of not greater than 40%.</li> <li>2. The particulate matter (PM) emission rate from Boiler #1 shall not exceed 0.239 lb/MMBTU.</li> <li>3. The particulate matter (PM) emission rate from Boiler #3 shall not exceed 0.190 lb/MMBTU.</li> <li>4. The maximum ash content of the No. 6 fuel oil fired in the #1 Boiler shall not exceed 0.44% by weight.</li> <li>5. The sulfur dioxide (SO<sub>2</sub>) emission rate from Boiler #1 and #3 shall each not exceed 4.0 lb/MMBTU.</li> <li>6. The maximum sulfur content of the No. 2 and No. 6 fuel oils fired in Boilers #1 and #3 shall not exceed 0.7% by weight.</li> </ol>	<p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 335-3-4-.03(1)</p> <p>ADEM Admin. Code R. 335-3-4-.03(1)</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-5-.01(b)</p> <p>ADEM Admin. Code R. 335-3-14</p>
<p><i>Compliance and Performance Test Methods and Procedures</i></p> <ol style="list-style-type: none"> <li>1. Compliance with the particulate requirements shall be determined by Reference Method 5 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is</li> </ol>	<p>ADEM Admin. Code R. 335-3-1-.05</p>

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<p>granted.</p> <p>2. Compliance with SO<sub>2</sub> emission rates shall be determined by Reference Method 6 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p>3. Compliance with the opacity requirements shall be determined by Reference Method 9 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p>4. The sulfur content of the No. 2 and No. 6 fuel oil shall be determined using the procedures of ASTM D4239(c) or an alternate method as approved by this Department.</p> <p>5. The ash content of the No. 6 fuel oil shall be determined using the procedures of ASTM D482 or an alternate method as approved by this Department.</p> <p>6. A tune-up shall be performed for Boilers #1 and #3 every year as referenced in 40 CFR 63.7540 as referenced in Table 3.</p>	<p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-1-05</p> <p>ADEM Admin. Code R. 335-3-11-.06(107)</p>
<p><i>Emission Monitoring</i></p> <p>1. As an indicator of compliance with the opacity limits on these boilers, daily visual observations of the boiler stacks shall be conducted by personnel familiar with Method 9, while burning No. 2 or No. 6 fuel oil. If visible emissions greater than normal are observed, the facility shall investigate and initiate any necessary corrective actions within 4 hours. After any corrective actions, an additional observation shall be performed in order to verify that emissions are reduced to normal.</p> <p>2. The No. 6 fuel oil fired in the #1 Boiler shall either be sampled and analyzed for ash content or fuel certifications shall be maintained</p> <p>3. The No. 2 and No. 6 fuel oil fired in Boilers #1 and #3 shall either be sampled and analyzed for sulfur</p>	<p>ADEM Admin. Code R. 335-3-16-.05(c)(1)(ii)</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p>

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<p>content or fuel certifications shall be maintained.</p> <p><i>Recordkeeping and Reporting Requirements</i></p> <ol style="list-style-type: none"> <li>1. Records of the required daily visual inspections while burning fuel oil shall be maintained and should be readily available for inspection for a period of five years. These records shall include the date and results of the visual inspections. If visible emissions greater than normal are observed, the records shall include the date and time of the initial observation, a description of the corrective actions taken, the date and time of the initial corrective action attempt, and the results of the follow-up visual inspection.</li> <li>2. Records of the ash content of the No. 6 fuel oil fired in Boiler #1, from testing results or fuel certifications, shall be maintained in a permanent form suitable for inspection and shall be retained for a period of 5 years following the date of shipment.</li> <li>3. Records of the sulfur content of the No. 2 and No. 6 fuel oils fired in Boilers #1 and #3, from testing results or fuel certifications, shall be maintained in a permanent form suitable for inspection and shall be retained for a period of 5 years following the date of shipment.</li> <li>4. Records of the total hours per calendar year that Boilers #1 and #3 operate when fuel oil is burned and the total hours per calendar year that Boilers #1 and #3 operate during periods of gas curtailment or gas supply emergencies shall be maintained in a permanent form suitable for inspection and shall be retained for a period of 5 years. These boilers shall perform a tune-up every year as specified in 40 CFR 63.7540 as referenced in Table 3.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16-.05(c)</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-11-.06(107)</p>

## Operating Permit Summary No. 2

**Emission Unit No.:** 057  
**Company:** 3M Company  
**Description:** 122.6 MMBTU/hr Natural Gas and No. 2 Fuel Oil Fired Boiler  
 (Boiler #6)

**Permitted Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
057	Boiler #6	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
057	Boiler #6	Opacity	Not more than 20% except for one six-minute period per hour of not more than 27%.	40 CFR 60.43b(f)
057	Boiler #6	PM	0.166 lb/MMBTU	335-3-4-.03(1)
057	Boiler #6	PM	3.2 lb/hr	335-3-14
057	Boiler #6	SO <sub>2</sub>	4 lb/MMBTU	335-3-5-.01(1)(b)
057	Boiler #6	SO <sub>2</sub>	≤ 0.05% S in Fuel Oil	335-3-14
057	Boiler #6	SO <sub>2</sub>	≤ 0.5% S in Fuel Oil	40 CFR 60.42b(j)
057	Boiler #6	NO <sub>x</sub>	0.1 lb/MMBTU	40 CFR 60.44b(a)
057	Boiler #6	NO <sub>x</sub>	38 tons/12 months	335-3-14
057	Boiler #6		≤ 769,300 gallons No. 2 Fuel Oil/12 months	335-3-14
057	Boiler #6	HAP	NESHAP Subpart DDDDD	335-3-11-.06(107)

## Provisos For Boiler #6

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<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. This source is subject to synthetic minor PSD emission limitations.</li> <li>3. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 60, Subpart A, unless otherwise stated in 40 CFR Part 60, Subpart Db.</li> <li>4. This source is subject to the requirements of the Federal New Source Performance Standards (NSPS) for Industrial-Commercial-Institutional Steam Generating Units in 40 CFR Part 60, Subpart Db.</li> <li>5. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart DDDDD.</li> <li>6. These boilers are subject to the requirements of the National Emission Standard for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16-.03</p> <p>ADEM Admin. Code R. 334-3-14-.04</p> <p>ADEM Admin. Code R. 335-3-10-.02(1)</p> <p>ADEM Admin. Code R. 335-3-10-.02(2)(b)</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(107)</p>
<p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. Boiler #6 shall not discharge into the atmosphere, particulate of an opacity greater than 20% as determined by a six minute average, except for one 6 minute period per hour of not greater than 27%, in accordance 60.43b(f) of Subpart Db.</li> <li>2. The particulate matter (PM) emission rate from Boiler #6 shall not exceed 0.166 lb/MMBTU.</li> <li>3. The particulate matter (PM) emission rate from Boiler #6 shall not exceed 3.2 lb/hr.</li> <li>4. The sulfur dioxide (SO<sub>2</sub>) emission rate from Boiler #6 shall each not exceed 4.0 lb/MMBTU. Boiler #6</li> </ol>	<p>ADEM Admin. Code R. 335-3-10-.02(2)(b)</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 335-3-4-.03(1)</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-5-.01(b)</p>

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<p>shall utilize low-NOx burners.</p> <p>5. The nitrogen oxides (NO<sub>x</sub>) emission rate from Boiler #6 shall not exceed 38 tons during any consecutive rolling 12 month period as determined by the PEMS.</p> <p>6. The sulfur content of the fuel oil burned in Boiler #6 shall not exceed 0.05% by weight.</p> <p>7. Boiler #6 shall be limited to burning ≤ 769,300 gallons of No. 2 fuel oil during any 12 consecutive months.</p> <p>8. This facility is required to install, calibrate, maintain, and operate a continuous predictive emission monitoring system (PEMS) to measure nitrogen oxide emissions from Boiler #6. The PEMS shall comply with the performance specifications as stated in 40, CFR Part 60, Appendix B or the appropriate approved alternate procedures. The PEMS shall also meet the quality assurance procedures found in 40 CFR Part 60, Appendix F or the appropriate approved alternate procedures.</p>	<p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14 ADEM Admin. Code R. 335-3-10-.02(2)(b)</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-10-.02(2)(b)</p>
<p><i>Compliance and Performance Test Methods and Procedures</i></p> <p>1. The emission rate of particulate matter (PM) shall be measured in accordance with Reference Method 5 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p>2. The emission rate of sulfur dioxide (SO<sub>2</sub>) shall be measured in accordance with Reference Method 6 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p>3. The emission rate of nitrogen oxides (NO<sub>x</sub>) shall be measured in accordance with Reference Method 7 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p>4. Compliance with the opacity requirements shall be determined by Reference Method 9 in Appendix A of</p>	

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<p>40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p>5. The compliance and performance test methods and procedures for particulate matter and nitrogen oxides in 60.46b of Subpart Db shall be followed, as applicable.</p> <p>6. The sulfur content of the fuel oil shall be determined using the procedures of ASTM D4239(c) or an alternate method as approved by this Department.</p> <p>7. A tune-up shall be performed for Boiler #6 every year as referenced in 40 CFR 63.7540 as referenced in Table 3.</p>	<p>335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-10-.02(2)(b)</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-11-.06(107)</p>
<p><i>Emission Monitoring</i></p> <p>1. Such that an opacity monitor is not required under NSPS, Subpart Db, the following requirements shall be met:</p> <ul style="list-style-type: none"> <li>a) At least once during each daylight shift when fuel oil is combusted, an observer certified in accordance with EPA Method 9 shall perform a 6-minute visible emission observation. In order to obtain representative results, the oil firing rate during the observation must be the operating rate during the shift.</li> <li>b) An observer certified in accordance with EPA Method 9 shall perform a 6-minute visible emissions observation whenever the boiler reaches operating load after a cold start-up with fuel oil.</li> <li>c) If the average opacity for a 6-minute set of readings made in accordance with conditions a or b exceeds 10 percent, the observer must collect two additional 6-minute sets of visible emissions for a total of three data sets.</li> <li>d) Records of the date and time of the visible emissions, along with the results of each observation, must be maintained in a permanent form suitable for inspection for a period of at least five years.</li> <li>e) Thirty days after the end of each calendar quarter in which there are opacity excess emissions during oil combustion, 3M must submit an excess emission report to the</li> </ul>	<p>ADEM Admin. Code R. 335-3-10-.02(2)(b)</p>

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<p>Department. This report should include the total time the unit was operating in excess of 20% opacity while operating on fuel oil. If there are no periods of excess opacity, this report may be submitted semi-annually. The total amount of fuel oil burned during the reporting period must also be submitted with this report.</p> <p>2. Compliance with the NO<sub>x</sub> standard for Boiler #6 shall be indicated by the NO<sub>x</sub> PEMS.</p> <p>3. In order to demonstrate compliance with the 38 tpy NO<sub>x</sub> emission limit, the NO<sub>x</sub> emissions shall be calculated on an hourly basis and totaled each calendar month. The emission rate shall be determined by the NO<sub>x</sub> PEMS.</p> <p>4. The No. 2 fuel oil fired in Boiler #6 shall either be sampled and analyzed for sulfur content or fuel receipts shall be maintained.</p> <p><i>Recordkeeping and Reporting Requirements</i></p> <p>1. The reporting and recordkeeping requirements of 60.49b of Subpart Db shall be followed, as applicable.</p> <p>2. A written report of excess NO<sub>x</sub> and SO<sub>2</sub> emissions, as defined below, shall be submitted no later than 30 days after the quarter period end dates of March 31, June 30, September 30, and December 31. The reports will include the following information:</p> <p>(a) (1) NO<sub>x</sub>: The magnitude of excess emissions over 0.1 lb/MMBTU computed from 30 day rolling averages.</p> <p>(2) SO<sub>2</sub>: Certification that only very low sulfur oil was combusted as demonstrated by fuel receipts or testing results.</p> <p>Note: Data recorded during periods of system breakdowns, repairs, adjustments, and calibration checks and zero and span</p>	<p>ADEM Admin. Code R. 335-3-10-.02(2)(b)</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14 ADEM Admin. Code R. 335-3-10-.02(2)(b)</p> <p>ADEM Admin. Code R. 335-3-10-.02(2)(b)</p> <p>ADEM Admin. Code R. 335-3-10-.02(2)(b)</p>

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<p>adjustments shall not be included in any of the above data averages.</p> <p>(b) The date and time of commencement and completion of each time period of excess emissions.</p> <p>(c) The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measure adopted.</p> <p>(d) The date and time identifying each period during which the NO<sub>x</sub> monitoring system was inoperative (except for zero and span checks) and the nature of the system repairs or adjustments.</p> <p>(e) Equations used to convert NO<sub>x</sub> emission data as monitored to the required reporting standard (lb/MMBTU) will be included in the reports(s).</p> <p>(f) When no excess emissions have occurred and the monitoring systems were not inoperative or did not require repairs or adjustments, such information will be stated in the report.</p> <p>3. Records of the number of gallons of No. 2 fuel oil burned each month and the rolling 12 month fuel oil usage in Boiler #6 shall be maintained in a permanent form suitable for inspection for a period of at least 5 years.</p> <p>4. Records of the sulfur content of the fuel oil fired in the #6 Boiler, as determined by testing or fuel certifications, shall be maintained in a permanent form suitable for inspection for a period of at least 5 years.</p> <p>5. Records of the monthly and 12 month NO<sub>x</sub> emission totals, based upon the NO<sub>x</sub> PEMS, shall be maintained in a permanent form suitable for inspection for a period of at least 5 years.</p> <p>6. The monthly and 12 month NO<sub>x</sub> emission totals, based upon the PEMS, shall be reported to the Department in the quarterly excess emissions reports.</p> <p>7. Records of the total hours per calendar year that</p>	<p></p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R.</p>

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<p>Boiler #6 operates when fuel oil is burned and the total hours per calendar year that Boiler 6 operates during periods of gas curtailment or gas supply emergencies shall be maintained in a permanent form suitable for inspection and shall be retained for a period of 5 years. This boiler shall perform a tune-up every year as specified in 40 CFR 63.7540 as referenced in Table 3.</p>	<p>335-3-11-.06(107)</p>

## Operating Permit Summary No. 3

**Emission Unit Nos.:** 090  
**Company:** 3M Company  
**Description:** 8 MMBTU/hr 15-2 Dowtherm Natural Gas and Propane Fired Boiler  
**Permitted Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
090	15-2 Dowtherm Boiler	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
090	15-2 Dowtherm Boilers	PM	0.55 lb/MMBTU	335-3-4-.03(1)
090	15-2 Dowtherm Boiler	SO <sub>2</sub>	4 lb/MMBTU	335-3-5-.01(1)(b)
090	15-2 Dowtherm Boiler	HAP	NESHAP Subpart DDDDD	335-3-11-.06(107)

## Provisos For 15-2 Dowtherm Boiler

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, Major Source Operating Permits.</li> <li>2. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart DDDDD.</li> <li>3. This boiler is subject to the requirements of the National Emission Standard for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16-.03</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(107)</p>
<p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. The 15-2 Dowtherm Boiler shall not discharge into the atmosphere, particulate of an opacity greater than 20% as determined by a six minute average, except for one 6 minute period in any sixty minute period of not greater than 40%.</li> <li>2. The particulate matter (PM) emission rate from the 15-2 Dowtherm Boiler shall not exceed 0.55 lb/MMBTU.</li> <li>3. The sulfur dioxide (SO<sub>2</sub>) emission rate from the 15-2 Boiler shall each not exceed 4.0 lb/MMBTU.</li> </ol>	<p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 335-3-4-.03(1)</p> <p>ADEM Admin. Code R. 335-3-5-.01(b)</p>
<p><i>Compliance and Performance Test Methods and Procedures</i></p> <ol style="list-style-type: none"> <li>1. Compliance with the particulate requirements shall be determined by Reference Method 5 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</li> <li>2. Compliance with SO<sub>2</sub> emission rates shall be determined by Reference Method 6 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</li> <li>3. Compliance with the opacity requirements shall be</li> </ol>	<p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R.</p>



## Operating Permit Summary No. 4

**Emission Unit No.:** 065

**Company:** 3M Company

**Description:** 21 MMBTU/hr Natural Gas Fired VDF/PVDF Boiler

**Permitted Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
065	VDF/PVDF Boiler	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
065	VDF/PVDF Boiler	PM	0.36 lb/MMBTU	335-3-4-.03(1)
065	VDF/PVDF Boiler	SO <sub>2</sub>	4 lb/MMBTU	335-3-5-.01(b)
065	VDF/PVDF Boiler	HAP	NESHAP Sub[art DDDDD	335-3-11-.06(107)

## Provisos For VDF/PVDF Boiler

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 60, Subpart A, unless otherwise stated in 40 CFR Part 60, Subpart Dc.</li> <li>3. This source is subject to the requirements of the Federal New Source Performance Standards (NSPS) for Industrial-Commercial-Institutional Steam Generating Units in 40 CFR Part 60, Subpart Dc.</li> <li>4. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart DDDDD.</li> <li>5. This boiler is subject to the requirements of the National Emission Standard for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16-.03</p> <p>ADEM Admin. Code R. 335-3-10-.02(1)</p> <p>ADEM Admin. Code R. 335-3-10-.02(2)(c)</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(107)</p>
<p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. The VDF/PVDF Boiler shall not discharge into the atmosphere, particulate of an opacity greater than 20% as determined by a six minute average, except for one 6 minute period in any sixty minute period of not greater than 40%.</li> <li>2. The particulate matter (PM) emission rate from the VDF/PVDF Boiler shall not exceed 0.36 lb/MMBTU.</li> <li>3. The sulfur dioxide (SO<sub>2</sub>) emission rate from VDF/PVDF Boiler shall not exceed 4.0 lb/MMBTU.</li> <li>4. The VDF/PVDF Boiler shall be limited to burning natural gas as the only combustible fuel.</li> </ol>	<p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 335-3-4-.03(1)</p> <p>ADEM Admin. Code R. 335-3-5-.01(b)</p> <p>ADEM Admin. Code R. 335-3-14</p>
<p><i>Compliance and Performance Test Methods and Procedures</i></p> <ol style="list-style-type: none"> <li>1. The emission rate of particulate matter (PM) shall be</li> </ol>	<p>ADEM Admin. Code R.</p>

Federally Enforceable Provisos	Regulations
<p>measured in accordance with Reference Method 5 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p>2. The emission rate of sulfur dioxide (SO<sub>2</sub>) shall be measured in accordance with Reference Method 6 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p>3. Compliance with the opacity requirements shall be determined by Reference Method 9 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p>	<p>335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-1-.05</p>
<p><i>Emission Monitoring</i></p>	
<p>1. The amount of each fuel combusted during each day shall be monitored.</p>	<p>ADEM Admin. Code R. 335-3-10-.02(2)(c)</p>
<p><i>Recordkeeping and Reporting Requirements</i></p>	
<p>1. Records of the amounts of each fuel combusted during each day shall be maintained and be readily available for inspection for a period of five years from the date of generation.</p>	<p>ADEM Admin. Code R. 335-3-10-.02(2)(c)</p>
<p>2. This boiler shall perform a tune-up every year as specified in 40 CFR 63.7540 as referenced 40 CFR 63.7500(e). Records of the tune-ups shall be maintained in a permanent form suitable for inspection for a period of at least 5 years.</p>	<p>ADEM Admin. Code R. 335-3-11-.06(107)</p>

## Operating Permit Summary No. 5

**Emission Unit No.:** 037

**Company:** 3M Company

**Description:** Polymer and Resin Manufacturing Line 15-2

**Permitted Operating**

**Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 HRS/YR

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
A	Line 15-2 Stack Vent	VOCs	10 lb/hr	335-3-14
	Line 15-2 Unit	HAPs	40 CFR Part 63, Subpart FFFF	335-3-11-.06(83)

## Provisos For Line 15-2

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. This source is subject to synthetic minor PSD emission limitations.</li> <li>3. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart FFFF.</li> <li>4. This source is subject to the requirements of the National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing, 40 CFR Part 63, Subpart FFFF.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 334-3-14-.04</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p>
<p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. The total VOC emission rate from this unit shall not exceed 10.0 lb/hr.</li> <li>2. The emissions from this process shall be vented to the scrubber as described in the application forms.</li> <li>3. The batch process vent from this unit has been classified as a Group 1 vents with annual emissions greater than 10,000 lb/yr and shall comply with 63.2460 of Subpart FFFF.</li> <li>4. As indicated in 63.2460 of Subpart FFFF, an emission limit must be established to meet the emission limit in Table 2 of this subpart that applies to the batch process vent as specified in 63.2460(b) and 63.2460(c).</li> <li>5. Wastewater designated as Group 1 streams from the Line 15-2 unit shall be sent to a steam stripper. The steam stripper shall be properly maintained and operated in order to minimize emissions. Otherwise, wastewater shall be sent to the wastewater treatment facility.</li> <li>6. The leak detection and repair provisions of 40 CFR Part 63, Subpart H or Subpart UU shall be followed</li> </ol>	<p>ADEM Admin. Code R. 334-3-14</p> <p>ADEM Admin. Code R. 334-3-14</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p> <p>ADEM Admin. Code R.</p>

Federally Enforceable Provisos	Regulations
<p>as referenced under 63.2480(a) with the differences noted in 63.2480(b) and 63.2480(d).</p> <p><i>Compliance and Performance Test Methods and Procedures</i></p> <p>1. Compliance with the VOC emission rates, unless otherwise specified by a regulation, shall be determined by Reference Method 18 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p><i>Emission Monitoring</i></p> <p>1. VOC emission testing shall be conducted at intervals not to exceed 3 years. The testing shall be conducted following the outlet of the scrubber.</p> <p>2. The water flow rate to the scrubber shall be maintained at <math>\geq 18</math> gallons per minute during production of VOC emitting products.</p> <p>3. As an indicator of compliance with HAP emissions from the steam stripper, the minimum feed temperature shall be 203F and the minimum steam to feed ratio shall be 0.04 kg/liter. The temperature and feed ratio shall be recorded continuously by electronic historian recording values at least once every 15 minutes, with daily averages of 203°F and 0.04 kg/liter or greater to indicate compliance.</p> <p><i>Recordkeeping and Reporting Requirements</i></p> <p>1. Records shall be maintained indicating periods when the scrubber flow rate is 18 gpm during production of VOC and HAP emitting products. These records shall be maintained in a permanent form and should be readily available for inspection for a period of five years from the date of generation.</p> <p>2. Primary product determinations and applicability shall be followed as specified in 63.2535(l) of Subpart FFFF.</p> <p>3. The recordkeeping requirements of 63.2525(b), (c), and [d] and the reporting requirements of 63.2520(a), (b), (c), [d], and (e) shall be followed as applicable as</p>	<p>335-3-11-.06(83)</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 334-3-14</p> <p>ADEM Admin. Code R. 334-3-14</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p> <p>ADEM Admin. Code R. 334-3-14</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p>

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<p>indicated in 63.2450(a).</p> <p>4. Periodic (Compliance) reports as specified under 63.2520 shall be submitted no later than 60 days after the semi-annual period end dates of June 30 and December 31.</p>	<p>ADEM Admin. Code R. 335-3-11-.06(83)</p>

## Operating Permit Summary No. 6

**Emission Unit No.:** 053

**Company:** 3M Company

**Description:** Building 39, 15, and 19 Transport Systems

**Permitted Operating**

**Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 HRS/YR

**Emission Limitations:**

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
15-PV-2001, 39-PV-2001, 15-PV-2002, 15-PV-3001, 19-PV-3001, 19-PV-3002	15-2 QC Hopper, Building 39 Transfer Systems, TA/NDC Hopper, Building 15 Powder Charging and Dust, Building 19 Powder Charging Dust, Build 19 Pellet Dryer Dust	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
15-PV-2001, 39-PV-2001, 15-PV-2002, 15-PV-3001, 19-PV-3001, 19-PV-3002	15-2 QC Hoppers, Building 39 Transfer Systems, TA/NDC Hopper, Building 15 Powder Charging and Dust, Building 19 Powder Unloading and Dust, Build 19 Pellet Dryer Dust	PM	$E = 3.59P^{0.62}$	335-3-4-.04(1)
39-PV-2001	Building 39 Transfer Systems	PM	1.30 lb/hr	335-3-14
15-PV-2002	TA/NDC Hopper	PM	0.16 lb/hr	335-3-14
15-PV-3001	Building 15 Powder Charging Dust Collector	PM	0.16 lb/hr	335-3-14
19-PV-3001	Building 19 Powder Unloading and Dust Collector	PM	0.09 lb/hr	335-3-14
19-PV-3002	Dryer Baghouse	PM	0.07 lb/hr	335-3-14

## Provisos For Building 39, 15, and 19 Transport Systems

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. Emission Points 39-PV-2001, 15-PV-2002, 15-PV-3001, 19-PV-3001, and 19-PV-3002, are subject to synthetic minor PSD emission limitations.</li> </ol> <p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. Emission points 15-PV-2001, 39-PV-2001, 15-PV-2002, 15-PV-3001, 19-PV-3001, and, 19-PV-3002 shall not discharge into the atmosphere, particulate of an opacity greater than 20% as determined by a six minute average, except for one 6 minute period in any sixty minute period of not greater than 40%.</li> <li>2. Particulate emissions from the above noted sources shall not exceed the amount as noted below:  <math display="block">E = 3.59P^{0.62}</math> Where E = Emissions in lb/hr  P = Process Weight in TPH (<math>P \leq 30</math> TPH)</li> <li>3. Particulate emissions from emission point 39-PV-2001, shall not exceed 1.30 lb/hr.</li> <li>4. Particulate emissions from emission point 15-PV-2002 shall not exceed 0.16 lb/hr.</li> <li>5. Particulate emissions from emission point 15-PV-3001 shall not exceed 0.16 lb/hr.</li> <li>6. Particulate emissions from emission point 19-PV-3001 shall not exceed 0.09 lb/hr.</li> <li>7. Particulate emissions from emission point 19-PV-3002 shall not exceed 0.07 lb/hr</li> </ol> <p><i>Compliance and Performance Test Methods and Procedures</i></p> <ol style="list-style-type: none"> <li>1. Compliance with the particulate requirements shall be determined by Reference Method 5 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 334-3-14-.04</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 334-3-4-.04(1)</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-1-.05</p>



## Operating Permit Summary No. 7

**Emission Unit No.:** 017

**Company:** 3M Company

**Description:** Storage Silos and Pellet Transport

**Permitted Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 HRS/YR

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
14-PCR-203	Weigh hoppers and unloading bins,	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
14-PC-3001	Pellet Surge Hoppers for Film Lines	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
14-PC-1901	Silos	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
14-PC-1501	Blender Hoppers	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
14-PCR-203	Weigh hoppers and unloading bins	PM	$E = 3.59P^{0.62}$	335-3-4-.04(1)
14-PC-3001	Pellet Surge Hoppers for Film Lines	PM	$E = 3.59P^{0.62}$	335-3-4-.04(1)
14-PC-1901	Silos	PM	$E = 3.59P^{0.62}$	335-3-4-.04(1)
14-PC-1501	Blender Hoppers	PM	$E = 3.59P^{0.62}$	335-3-4-.04(1)

## Provisos For Storage Silos and Pellet Transport

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <p>1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</p> <p><i>Emission Standards</i></p> <p>1. The above noted emission points shall not discharge into the atmosphere, particulate of an opacity greater than 20% as determined by a six minute average, except for one 6 minute period in any sixty minute period of not greater than 40%.</p> <p>2. Particulate emissions from emission points 14-PCR-203, 14-PC-3001, 14-PC-1901, and 14-PC-1501 shall not exceed the amount as noted below:</p> $E = 3.59P^{0.62}$ <p>Where E = Emissions in lb/hr P = Process Weight in TPH (<math>P \leq 30</math> TPH)</p> <p>3. The amount of polyester transported from the raw material silos to the film lines shall not exceed 3,600,000 pounds per day.</p> <p><i>Compliance and Performance Test Methods and Procedures</i></p> <p>1. Compliance with the particulate requirements shall be determined by Reference Method 5 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p>2. Compliance with the opacity requirements shall be determined by Reference Method 9 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p><i>Emission Monitoring</i></p> <p>1. As an indicator of compliance with the particulate and opacity emission limits, weekly visual observations of each of the following emission points shall be conducted by personnel familiar with Method 9, on days when the underlying process/emission unit is operating. If visible</p>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 334-3-4-.04(1)</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-16-.05(c)(1)(ii)</p>

Federally Enforceable Provisos	Regulations
<p>emissions are observed, the facility shall investigate and initiate any necessary corrective actions within 4 hours. After any corrective actions, an additional observation shall be performed in order to verify that emissions are no longer observed:</p> <p>14-PCR-203, 14-PC-3001, 14-PC-1901</p> <p>2. The daily average amount of polyester transported from the raw material silos to the film lines shall be computed.</p> <p><i>Recordkeeping and Reporting Requirements</i></p> <p>1. Records of the required weekly visual inspections shall be maintained and should be readily available for inspection for a period of five years. These records shall include the date and results of the visual inspections. If visible emissions are observed, the records shall include the date and time of the initial observation, a description of the corrective actions taken, the date and time of the initial corrective action attempt, and the results of the follow-up visual inspection.</p> <p>2. Records of the daily average amount of polyester transported from the raw material silos to the film lines shall be maintained and be readily available for inspection for a period of 5 years following the date of generation of the record.</p>	<p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-16-.05(c)</p> <p>ADEM Admin. Code R. 335-3-14</p>

## Operating Permit Summary No. 8

**Emission Unit No.:** 062  
**Company:** 3M Company  
**Description:** D3 Film Line

**Permitted Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 HRS/YR

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
14-PC-3002, 14-PC-3006, 14-PC-3003, 14-PV-3007, 14-PV-031, 14-PV-405, 14-PV-408, 14-PV-407, 14-PC-3205, 14-PC-3101	8" Extruder Kice Aspirator Surge Hopper Baghouse, 2" Extruder Feed Station Baghouse, Twin Screw Extruder Vacuum Loader Fines Filter, Dryer/Desiccant Beds/Vacuum Loader Cyclone, DTR cyclone, Edge Trim Cyclones (2), Floor Scrap Grinder Cyclone, Extruder Feeder Aspirator Baghouse, Acrylate Resin Scrubber	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
14-PC-3002, 14-PC-3006, 14-PC-3003, 14-PV-3007, 14-PV-031, 14-PV-405, 14-PV-408, 14-PV-407, 14-PC-3205, 14-PC-3101	8" Extruder Kice Aspirator Surge Hopper Baghouse, 2" Extruder Feed Station Baghouse, Twin Screw Extruder Vacuum Loader Fines Filter, Dryer/Desiccant Beds/Vacuum Loader Cyclone, DTR cyclone, Edge Trim Cyclones (2), Floor Scrap Grinder Cyclone, Extruder Feeder Aspirator Baghouse, Acrylate Resin Scrubber	PM	$E = 3.59P^{0.62}$	335-3-4-.04(1)
14-PC-3006	2" Extruder Feed Station Baghouse	PM	0.03 lb/hr	335-3-14
14-PC-3003	Twin Screw Extruder Vacuum Loader Fines Filter	PM	0.01 lb/hr	335-3-14

	D-3 Film Line	HAPs	40 CFR Part 63, Subpart JJJJ	335-3-11-.06(87)
14-PC-3205	Extruder Feeder Aspirator Baghouse	PM	≤ 0.32 lb/hr	335-3-14
14-PC-3101	Acrylate Resin Scrubber	HAP	0.6 lb/hr	335-3-14

## Provisos For D3 Film Line

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. Emission Points 14-PC-3006, 14-PC-3003, 14-PC-3205, and 14-PC-3101 are subject to synthetic minor PSD emission limitations.</li> <li>3. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart JJJJ.</li> <li>4. This source is subject to the requirements of the National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating, 40 CFR Part 63, Subpart JJJJ.</li> </ol> <p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. This source shall not discharge into the atmosphere, particulate of an opacity greater than 20% as determined by a six minute average, except for one 6 minute period in any sixty minute period of not greater than 40%.</li> <li>2. Particulate emissions from emission points 14-PC-3002, 14-PV-3007, 14-PV-031, 14-PV-405, 14-PV-408, and 14-PV-407 shall not exceed the amount as noted below:  <math display="block">E = 3.59P^{0.62}</math> Where E = Emissions in lb/hr  P = Process Weight in TPH (P ≤ 30 TPH)</li> <li>3. Particulate emissions from emission point 14-PC-3006 shall not exceed 0.03 lb/hr.</li> <li>4. Particulate emissions from emission point 14-PC-3003 shall not exceed 0.01 lb/hr.</li> <li>5. Particulate emissions from emission point 14-PC-3205 shall not exceed 0.32 lb/hr.</li> <li>6. HAP emissions from emission point 14-PC-3101 shall</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 334-3-14-.04</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(87)</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 334-3-4-.04(1)</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R.</p>

Federally Enforceable Provisos	Regulations
<p>not exceed 0.6 lb/hr.</p> <p>7. Emissions from the extrusion of acrylate products shall be vented to the scrubber (14-PC-3101).</p> <p><i>Compliance and Performance Test Methods and Procedures</i></p> <p>1. Compliance with the particulate requirements shall be determined by Reference Method 5 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p>2. Compliance with the opacity requirements shall be determined by Reference Method 9 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p>3. Compliance with the HAP emission limitation shall be determined by Reference Method 18 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p>4. Compliance with the VOC content (in pounds per gallon) of each VOC containing material used on the coating line shall be determined by Reference Method 24 in Appendix A of 40 CFR 60 or equivalent vendor data approved by the Department in advance. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p>5. The performance tests as specified in 63.3360 of Subpart JJJJ shall be followed, as applicable, upon the compliance date.</p> <p>6. Compliance with the emission standards of Subpart JJJJ shall be determined as specified in 63.3370 of Subpart JJJJ, as applicable, upon the compliance date.</p> <p><i>Emission Monitoring</i></p> <p>1. As an indicator of compliance with the particulate and opacity emission limits, visual observations of</p>	<p>335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-11-.06(87)</p> <p>ADEM Admin. Code R. 335-3-11-.06(87)</p> <p>ADEM Admin. Code R.</p>



<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<p>should be readily available for inspection for a period of five years. When no acrylate resins are produced, a notation of such shall be indicated rather than a daily average scrubber flow.</p> <p>4. The notifications and reports as specified in 63.3400 of Subpart JJJJ, shall be submitted, as applicable.</p> <p>5. As specified in 63.3400(b) of Subpart JJJJ, an initial notification shall be submitted no later than 1 year before the compliance date.</p> <p>6. As specified in 63.3400(c) of Subpart JJJJ, semiannual compliance reports containing the information specified in 63.3400(c)(2) shall be submitted no later than 60 days after the semiannual period end dates of June 30 and December 31.</p> <p>7. A Notification of Compliance Status as required under 63.3400(e) of Subpart JJJJ shall be submitted as specified in 63.9(h), as applicable.</p> <p>8. Records as required under 63.3410 of Subpart JJJJ shall be maintained as applicable, upon the compliance date.</p>	<p>335-3-14</p> <p>ADEM Admin. Code R. 335-3-11-.06(87)</p> <p>ADEM Admin. Code R. 335-3-11-.06(87)</p> <p>ADEM Admin. Code R. 335-3-11-.06(87)</p> <p>ADEM Admin. Code R. 335-3-11-.06(87)</p> <p>ADEM Admin. Code R. 335-3-11-.06(87)</p>

## Operating Permit Summary No. 9

**Emission Unit No.:** 054  
**Company:** 3M Company  
**Description:** D6 Film Line

**Permitted Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 HRS/YR

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
14-PV-6101, 14-PV-6102, 14-PV-6103, 14-PC-6301, 14-PC-6302, 14-PC-6303	D6 Die Exhaust/Flex Hose (14-PV-6101), D6 Casting Fans (14-PV-6103), and D6 Edge Trim Baler (14-PV-6102)	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
14-PV-6102	D6 Edge Trim Baler (14-PV-6102)	PM	$E = 3.59P^{0.62}$	335-3-4-.04(1)
14-PC-6001, 14-PC-6002, 14-PC-6003, 14-PC-6301, 14-PC-6302, 14-PC-6303; (All Emission Points located inside)	D6 Film Line Resin Transport Systems each with a filter	PM	0.2 lb/hr, total	335-3-14-.04

## Provisos For D6 Film Line

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. This unit is subject to synthetic minor PSD emission limitations.</li> </ol> <p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. This source shall not discharge into the atmosphere, particulate of an opacity greater than 20% as determined by a six minute average, except for one 6 minute period in any sixty minute period of not greater than 40%.</li> <li>2. Particulate emissions from emission points 14-PV-6101, 14-PV-6102, and 14-PV-6103 shall not exceed the amount as noted below:  <math display="block">E = 3.59P^{0.62}</math> <p style="margin-left: 40px;">Where E = Emissions in lb/hr  P = Process Weight in TPH (<math>P \leq 30</math> TPH)</p> </li> <li>3. Particulate emissions from emission points 14-PC-6001, 14-PC-6002, 14-PC-6003, 14-PC-6301, 14-PC-6302, and 14-PC-6303 collectively shall not exceed 0.2 lb/hr. These emission points are located inside a building.</li> </ol> <p><i>Compliance and Performance Test Methods and Procedures</i></p> <ol style="list-style-type: none"> <li>1. Compliance with the particulate requirements shall be determined by Reference Method 5 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</li> <li>2. Compliance with the opacity requirements shall be determined by Reference Method 9 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</li> </ol> <p><i>Emission Monitoring</i></p> <ol style="list-style-type: none"> <li>1. For each of the following emissions points that are</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 334-3-14-.04</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 334-3-4-.04(1)</p> <p>ADEM Admin. Code R. 335-3-14-.04</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R.</p>



## Operating Permit Summary No. 10

**Emission Unit No.:** 096  
**Company:** 3M Company  
**Description:** D7 Film Line

**Permitted Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 HRS/YR

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
14-PV-101, 14-PV-532, 14-PC-529, 14-PV-7301, 14-PV-7302, 14-PV-7303, 14-PV-065, 14-PV-064, 14-PV-058, 14-PV-184, 14-PV-185, 14-PV-054, OX-50, HG-90, and DSR	DTR Hopper vent, D7 Maker Line Baghouse, D7/D8 Surge Hopper Cyclone, Edge Trim Grinders (2), DTR/ASR Hopper Cyclone, Oven Emission Points (6), Floor Scrap Grinder Cyclones (3)	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
14-PV-101, 14-PV-532, 14-PC-529, 14-PV-7301, 14-PV-7302, 14-PV-7303, OX-50, HG-90, and DSR	DTR Hopper vent, D7 Maker Line Baghouse, D7/D8 Surge Hopper Cyclone, Edge Trim Grinders (2), DTR/ASR Hopper Cyclone, Floor Scrap Grinder Cyclones (3)	PM	$E = 3.59P^{0.62}$	335-3-4-.04(1)
14-PV-101	DTR Hopper	PM	0.07 lb/hr	335-3-14
14-PC-529	D7/D8 Surge Hopper Cyclone	PM	0.07 lb/hr	335-3-14
14-PV-532	D7 Maker Line Baghouse	PM	0.2 lb/hr	335-3-14

## Provisos For D7 Film Line

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. This unit is subject to synthetic minor PSD emission limitations.</li> </ol> <p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. This source shall not discharge into the atmosphere, particulate of an opacity greater than 20% as determined by a six minute average, except for one 6 minute period in any sixty minute period of not greater than 40%.</li> <li>2. Particulate emissions from emission points 14-PV-101, 14-PV-532, 14-PC-529, 14-PV-7301, 14-PV-7302, 14-PV-7303, OX-50, HG-90, DSR shall not exceed the amount as noted below:  <math display="block">E = 3.59P^{0.62}</math> Where E = Emissions in lb/hr  P = Process Weight in TPH (<math>P \leq 30</math> TPH)</li> <li>3. Particulate emissions from emission point 14-PV-101 shall not exceed 0.07 lb/hr.</li> <li>4. Particulate emissions from emission point 14-PC-529 shall not exceed 0.07 lb/hr.</li> <li>5. Particulate emissions from emission point 14-PV-532 shall not exceed 0.2 lb/hr.</li> </ol> <p><i>Compliance and Performance Test Methods and Procedures</i></p> <ol style="list-style-type: none"> <li>1. Compliance with the particulate requirements shall be determined by Reference Method 5 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</li> <li>2. Compliance with the opacity requirements shall be determined by Reference Method 9 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 334-3-14-.04</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 334-3-4-.04(1)</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-1-.05</p>



## Operating Permit Summary No. 11

**Emission Unit No.:** 059  
**Company:** 3M Company  
**Description:** D8 Film Line

**Permitted Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 HRS/YR

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
14-PC-8001, 14-PC-8002, 14-PC-529, 14-PV-8301, 14-PV-8302, 14-PC-8201, 14-PV-8303, 14-PV-571, 14-PV-570, 14-PV-569, 14-PV-169, 14-PV-168, 14-PV-175, OX-50, HG-90, and DSR, 14-PV-8101, 14-PV-8102	DTR Baghouse, D8 Baghouse, D7/D8 Surge Hopper Cyclone, Edge Trim Grinders (2), Baler Filter Bag, DTR Hopper Cyclone, Ovens (6), Floor Scrap Grinder Cyclones (3), D8 Twin screw Extruder, D8 Twin screw Extruder Vacuum	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
14-PC-8001, 14-PC-8002, 14-PC-529, 14-PV-8301, 14-PV-8302, 14-PC-8201, 14-PV-8303, OX-50, HG-90, and DSR, 14-PV-8101, 14-PV-8102	DTR Baghouse, D8 Baghouse, D7/D8 Surge Hopper Cyclone, Edge Trim Grinders (2), Baler Filter Bag, DTR Hopper Cyclone, Floor Scrap Grinder Cyclones (3), D8 Twin screw Extruder, D8 Twin screw Extruder Vacuum	PM	$E = 3.59P^{0.62}$	335-3-4-.04(1)
14-PC-8003	Feeder Baghouse	PM	0.47 lb/hr	335-3-14

14-PC-8005	Feeder Baghouse	PM	0.75lb/hr	335-3-14
14-PC-8004	Feeder Baghouse	PM	0.47 lb/hr	335-3-14
14-PC-8201	Baler Filter Bag	PM	0.47 lb/hr	335-3-14
14-PC-8002	D8 Baghouse	PM	0.003 lb/hr	335-3-14
14-PC-529	D7/D8 Surge Hopper Cyclone	PM	0.07 lb/hr	335-3-14

## Provisos For D8 Film Line

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. This unit is subject to synthetic minor PSD emission limitations.</li> </ol> <p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. This source shall not discharge into the atmosphere, particulate of an opacity greater than 20% as determined by a six minute average, except for one 6 minute period in any sixty minute period of not greater than 40%.</li> <li>2. Particulate emissions from emission points 14-PC-8001, 14-PC-8002, 14-PC-529, 14-PV-8301, 14-PV-8302, 14-PC-8201, 14-PV-8303, OX-50, HG-90, DSR, 14-PV-8101, and 14-PV-8102 shall not exceed the amount as noted below:  <math display="block">E = 3.59P^{0.62}</math> Where E = Emissions in lb/hr  P = Process Weight in TPH (<math>P \leq 30</math> TPH)</li> <li>3. Particulate emissions from emission point 14-PC-529 shall not exceed 0.07 lb/hr.</li> <li>4. Particulate emissions from emission point 14-PC-8005 shall not exceed 0.75 lb/hr. This emission point is located inside a building.</li> <li>5. Particulate emissions from emission point 14-PC-8003 shall not exceed 0.47 lb/hr. This emission point is located inside a building.</li> <li>6. Particulate emissions from emission point 14-PC-8004 shall not exceed 0.47 lb/hr. This emission point is located inside a building.</li> <li>7. Particulate emissions from emission point 14-PC-8201 shall not exceed 0.47 lb/hr.</li> <li>8. Particulate emissions from emission point 14-PC-</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 334-3-14-.04</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 334-3-4-.04(1)</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R.</p>

Federally Enforceable Provisos	Regulations
<p>8002 shall not exceed 0.003 lb/hr.</p> <p><i>Compliance and Performance Test Methods and Procedures</i></p> <ol style="list-style-type: none"> <li>1. Compliance with the particulate requirements shall be determined by Reference Method 5 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</li> <li>2. Compliance with the opacity requirements shall be determined by Reference Method 9 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</li> </ol> <p><i>Emission Monitoring</i></p> <ol style="list-style-type: none"> <li>1. As an indicator of compliance with the particulate and opacity emission limits, visual observations of each of the following emission points as indicated below shall be conducted by personnel familiar with Method 9, on days when the underlying process/emission unit is operating. If visible emissions are observed, the facility shall investigate and initiate any necessary corrective actions within 4 hours. After any corrective actions, an additional observation shall be performed in order to verify that emissions are no longer observed:  Weekly Visual Observations: 14-PC-8001, 14-PC-8002, 14-PC-529, 14-PV-8303</li> <li>2. For each of the following emissions points that are located inside a building with no outside exit to the atmosphere, a Method 9 would not be required. Each emission point shall be inspected once per year to ensure operational integrity. If visible emissions are observed at any time, the facility shall investigate and initiate any necessary corrective actions within 4 hours. After any corrective actions, an additional observation shall be performed in order to verify that emissions are no longer observed:  14-PC-8003, 14-PC-8004, 14-PC-8005</li> </ol>	<p>335-3-14</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-16-.05(c)(1)(ii)</p>



## Operating Permit Summary No. 12

**Emission Unit No.:** 067  
**Company:** 3M Company  
**Description:** D9 Film Line

**Permitted Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 HRS/YR

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
14-PV-9001, 14-PV-9007, 14-PV-9005, 14-PV-9002, 14-PV-9003, 14-PV-9008, 14-PV-226, 14-PV-225, 14-PV-216, 14-PV-215, 14-PV-220, 14-PV-219, 14-PV-158, 14-PV-159, 14-PV-230, 14-PV-221, 14-PV-223, 14-PV-232, 14-PV-236, 14-PV-233, 14-PV-167, 14-PV-246, 14-PV-261, 14-PV-262, 14-PV-264, 14-PV-263, 14-PV-259, 14-PV-265, 14-PV-267, 14-PC-9001	Tote Discharge System, Flake Transport to Extruder 4 Blower, Extruder Receivers (A) Dust Collector DCA9B1, Extruder Receivers Dust Collector DCA-981, Extruder Totes/Boxes Dust Collector DCA-9A1, Floor Scrap Grinders Baghouse, Ovens (23), D9 extruder acrylate scrubber	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
14-PV-9001, 14-PV-9007, 14-PV-9005, 14-PV-9002,	Tote Discharge System, Flake Transport to Extruder 4 Blower, Extruder Receivers (A) Dust Collector DCA9B1,	PM	$E = 3.59P^{0.62}$	335-3-4-.04(1)

14-PV-9003, 14-PV-9008,	Extruder Receivers Dust Collector DCA-981, Extruder Totes/Boxes Dust Collector DCA-9A1, Floor Scrap Grinders Baghouse			
14-PV-9001	Tote Discharge System	PM	0.16 lb/hr	335-3-14
14-PV-9007	Flake Transport to Extruder 4 Blower	PM	0.98 lb/hr	335-3-14
14-PV-9005	Extruder Receivers (A) Dust Collector DCA9B1	PM	0.16 lb/hr	335-3-14
14-PV-9002	Extruder Receivers Dust Collector DCA-981	PM	0.32 lb/hr	335-3-14
14-PV-9008	Floor Scrap Grinders Baghouse	PM	0.91 lb/hr	335-3-14

## Provisos For D9 Film Line

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. This unit is subject to synthetic minor PSD emission limitations.</li> </ol> <p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. This source shall not discharge into the atmosphere, particulate of an opacity greater than 20% as determined by a six minute average, except for one 6 minute period in any sixty minute period of not greater than 40%.</li> <li>2. Particulate emissions from emission points 14-PV-9001, 14-PV-9007, 14-PV-9005, 14-PV-9002, 14-PV-9003, and 14-PV-9008 shall not exceed the amount as noted below:  <math display="block">E = 3.59P^{0.62}</math> Where E = Emissions in lb/hr  P = Process Weight in TPH (<math>P \leq 30</math> TPH)</li> <li>3. Particulate emissions from emission point 14-PV-9001 shall not exceed 0.16 lb/hr.</li> <li>4. Particulate emissions from emission point 14-PV-9007 shall not exceed 0.98 lb/hr.</li> <li>5. Particulate emissions from emission point 14-PV-9005 shall not exceed 0.16 lb/hr.</li> <li>6. Particulate emissions from emission point 14-PV-9002 shall not exceed 0.32 lb/hr.</li> <li>7. Particulate emissions from emission point 14-PV-9008 shall not exceed 0.91 lb/hr.</li> </ol> <p><i>Compliance and Performance Test Methods and Procedures</i></p> <ol style="list-style-type: none"> <li>1. Compliance with the particulate requirements shall be determined by Reference Method 5 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 334-3-14-.04</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 334-3-4-.04(1)</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-1-.05</p>

Federally Enforceable Provisos	Regulations
<p>granted.</p> <p>2. Compliance with the opacity requirements shall be determined by Reference Method 9 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p><i>Emission Monitoring</i></p> <p>1. As an indicator of compliance with the particulate and opacity emission limits, visual observations of each of the following emission points as indicated below shall be conducted by personnel familiar with Method 9, on days when the underlying process/emission unit is operating. If visible emissions are observed, the facility shall investigate and initiate any necessary corrective actions within 4 hours. After any corrective actions, an additional observation shall be performed in order to verify that emissions are no longer observed:</p> <p>Weekly Visual Observations:</p> <p>14-PV-9001, 14-PV-9007, 14-PV-9005, 14-PV-9002, 14-PV-9003, 14-PV-9008</p> <p><i>Recordkeeping and Reporting Requirements</i></p> <p>1. Records of the required weekly visual inspections shall be maintained and should be readily available for inspection for a period of five years. These records shall include the date and results of the visual inspections. If visible emissions are observed, the records shall include the date and time of the initial observation, a description of the corrective actions taken, the date and time of the initial corrective action attempt, and the results of the follow-up visual inspection.</p>	<p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-16-.05(c)(1)(ii)</p> <p>ADEM Admin. Code R. 335-3-16-.05(c)</p>

## Operating Permit Summary No. 13

**Emission Unit No.:** 028  
**Company:** 3M Company  
**Description:** PET Reclaim Operations

**Permitted Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 HRS/YR

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
14-PCR-201; 14-PV-SS01; 14-PCR-204; D7/D8 Floor Scrap Grinder	Reclaim densifier hopper, Solid state polymerizers for reclaim pellet production Dust Collector (SSP-001); DSR, D7, D8 vacuum system Dust Collector (R2-001), D7/D8 Floor Scrap Grinder	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
14-PCR-201; 14-PV-SS01; 14-PCR-204; D7/D8 Floor Scrap Grinder	Reclaim densifier hopper, Solid state polymerizers for reclaim pellet production Dust Collector (SSP-001); DSR, D7, D8 vacuum system Dust Collector (R2-001), D7/D8 Floor Scrap Grinder	PM	$E = 3.59P^{0.62}$	335-3-4-.04(1)
14-PV-SS01	Solid state polymerizers for reclaim pellet production Dust Collector (SSP-001);	PM	5 lb/hr	335-3-14

## Provisos For PET Reclaim Operations

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. This unit is subject to synthetic minor PSD emission limitations.</li> </ol> <p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. Emission points 14-PCR-201, 14-PV-SS01, 14-PCR-204, and the D7/D8 Floor Scrap Grinder shall not discharge into the atmosphere, particulate of an opacity greater than 20% as determined by a six minute average, except for one 6 minute period in any sixty minute period of not greater than 40%.</li> <li>2. Particulate emissions from the above noted sources shall not exceed the amount as noted below:  <math display="block">E = 3.59P^{0.62}</math> Where E = Emissions in lb/hr  P = Process Weight in TPH (<math>P \leq 30</math> TPH)</li> <li>3. Particulate emissions from emission point 14-PV-SS01 shall not exceed 5 lb/hr.</li> </ol> <p><i>Compliance and Performance Test Methods and Procedures</i></p> <ol style="list-style-type: none"> <li>1. Compliance with the particulate requirements shall be determined by Reference Method 5 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</li> <li>2. Compliance with the opacity requirements shall be determined by Reference Method 9 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</li> </ol> <p><i>Emission Monitoring</i></p> <ol style="list-style-type: none"> <li>1. As an indicator of compliance with the particulate and opacity emission limits, weekly visual observations of each of the following emission points shall be conducted by personnel familiar with</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 334-3-14-.04</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 334-3-4-.04(1)</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-16-.05(c)(1)(ii)</p>

Federally Enforceable Provisos	Regulations
<p>Method 9, on days when the underlying process/emission unit is operating. If visible emissions are observed, the facility shall investigate and initiate any necessary corrective actions within 4 hours. After any corrective actions, an additional observation shall be performed in order to verify that emissions are no longer observed:</p> <p>14-PCR-201, 14-PV-SS01, 14-PCR-204.</p> <p><i>Recordkeeping and Reporting Requirements</i></p> <ol style="list-style-type: none"> <li>1. Records of the required weekly visual inspections shall be maintained and should be readily available for inspection for a period of five years. These records shall include the date and results of the visual inspections. If visible emissions are observed, the records shall include the date and time of the initial observation, a description of the corrective actions taken, the date and time of the initial corrective action attempt, and the results of the follow-up visual inspection.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16-.05(c)</p>

## Operating Permit Summary No. 14

**Emission Unit No.:** 055

**Company:** 3M Company

**Description:** Rubber Mills #1, #2, #3 and Internal Rubber Mixer

**Permitted Operating**

**Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 HRS/YR

**Emission Limitations:**

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
A, B, C	Rubber Mill #1 Scrubber, Rubber Mill #2 Scrubber, Rubber Mill #3 Scrubber	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
A, B, C	Rubber Mill #1 Scrubber, Rubber Mill #2 Scrubber, Rubber Mill #3 Scrubber	PM	$E = 3.59P^{0.62}$	335-3-4-.04(1)
	Rubber Mills #1 – 3	VOCs	Solvent Usage ≤ 45,000 gallons/12 months	335-3-14
A, B, C	Rubber Mills #1, #2, #3 Scrubbers	VOCs	Scrubber efficiency of 90%	335-3-14
A, B, C	Rubber Mills #1, #2, #3 Scrubbers	HAPs	Scrubber efficiency of 98%  40 CFR Part 63, Subpart FFFF	335-3-11-.06(83)

### Provisos For Rubber Mills #1, 2, 3

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. These units are subject to synthetic minor PSD emission limitations.</li> <li>3. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart FFFF.</li> <li>4. These units are subject to the requirements of the National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing, 40 CFR Part 63, Subpart FFFF.</li> </ol> <p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. Emission points A, B, and C shall not discharge into the atmosphere, particulate of an opacity greater than 20% as determined by a six minute average, except for one 6 minute period in any sixty minute period of not greater than 40%.</li> <li>2. Particulate emissions from the above noted sources shall not exceed the amount as noted below:   <math display="block">E = 3.59P^{0.62}</math> <p>Where E = Emissions in lb/hr  P = Process Weight in TPH (<math>P \leq 30</math> TPH)</p> </li> <li>3. Solvent Usage for Rubber Mills #1 – 3 combined shall not exceed 45,000 gallons per 12 month period.</li> <li>4. The #1 – 3 Rubber Mill scrubbers shall be operated in such a manner as to achieve a VOC control efficiency of at least 90%.</li> <li>5. The #1 – 3 Rubber Mill scrubbers shall be operated in such a manner as to achieve a HAP control efficiency of at least 98%.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 334-3-14-.04</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 334-3-4-.04(1)</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p>

Federally Enforceable Provisos	Regulations
<p>6. The leak detection and repair provisions of 40 CFR Part 63, Subpart H or Subpart UU shall be followed as referenced under 63.2480(a) with the differences noted in 63.2480(b) and 63.2480(d).</p>	<p>ADEM Admin. Code R. 335-3-11-.06(83)</p>
<p><i>Compliance and Performance Test Methods and Procedures</i></p> <p>1. Compliance with the particulate requirements shall be determined by Reference Method 5 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p>2. Compliance with the opacity requirements shall be determined by Reference Method 9 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p>3. Compliance with the VOC emission rates shall be determined by Reference Method 25 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p>4. Compliance with the HAP emission rates shall be determined by Reference Method 18 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p><i>Emission Monitoring</i></p> <p>1. As an indicator of compliance with the VOC control efficiency of the rubber mill scrubbers, water flow rates to the #1, #2, and #3 Rubber Mill Scrubbers shall be monitored and maintained at 28 gpm, 28 gpm, and 35 gpm respectively based on hourly averages, recorded daily during operations involving application of solvent additives on days when the underlying process/emissions unit is operating.</p> <p><i>Recordkeeping and Reporting Requirements</i></p> <p>1. Records of the average hourly scrubber water flow rates shall be maintained and be readily available for</p>	<p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-16-.05(c)(1)(ii)</p> <p>ADEM Admin. Code R.</p>

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<p>a period of 5 years.</p> <p>2. Periodic (Compliance) reports as specified under 63.2520 shall be submitted no later than 60 days after the semi-annual period end dates of June 30 and December 31.</p>	<p>335-3-16-.05(c)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p>

## Operating Permit Summary No. 15

**Emission Unit No.:** 016

**Company:** 3M Company

**Description:** 3800 Batch Chemical Reactor System

**Permitted Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 HRS/YR

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
	3800 Reactor System	VOC		

## Provisos For 3800 Reactor System

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart FFFF.</li> <li>3. This source is subject to the requirements of the National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing, 40 CFR Part 63, Subpart FFFF.</li> <li>4. This source is an affected source for the MON MACT (40 CFR Part 63, Subpart FFFF). However, since there are no HAP emissions associated with this source, there are no monitoring, record-keeping, and reporting requirements that would be applicable under the MON MACT.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p>
<p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. This Source is subject to no additional specific requirements other than those listed in the General Permit Provisos.</li> </ol>	<p>NA</p>
<p><i>Compliance and Performance Test Methods and Procedures</i></p> <ol style="list-style-type: none"> <li>1. This Source is subject to no additional specific requirements other than those listed in the General Permit Provisos.</li> </ol>	<p>NA</p>
<p><i>Emission Monitoring</i></p> <ol style="list-style-type: none"> <li>1. This Source is subject to no additional specific requirements other than those listed in the General Permit Provisos.</li> </ol>	<p>NA</p>
<p><i>Recordkeeping and Reporting Requirements</i></p> <ol style="list-style-type: none"> <li>1. This Source is subject to no additional specific requirements other than those listed in the General Permit Provisos.</li> </ol>	<p>NA</p>

## Operating Permit Summary No. 16

**Emission Unit No.:** 093  
**Company:** 3M Company  
**Description:** 419 Reactor System

**Permitted Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 HRS/YR

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
04-VT-704, 04-VT-700, 04-PV-584	419 Reactor System Vents	VOC		

## Provisos For 419 Reactor System

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart FFFF.</li> <li>3. This source is subject to the requirements of the National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing, 40 CFR Part 63, Subpart FFFF.</li> <li>4. This source is an affected source for the MON MACT (40 CFR Part 63, Subpart FFFF). However, since there are no HAP emissions associated with this source, there are no monitoring, record-keeping, and reporting requirements that would be applicable under the MON MACT.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p>
<p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. This Source is subject to no additional specific requirements other than those listed in the General Permit Provisos.</li> </ol>	<p>NA</p>
<p><i>Compliance and Performance Test Methods and Procedures</i></p> <ol style="list-style-type: none"> <li>1. This Source is subject to no additional specific requirements other than those listed in the General Permit Provisos.</li> </ol>	<p>NA</p>
<p><i>Emission Monitoring</i></p> <ol style="list-style-type: none"> <li>1. This Source is subject to no additional specific requirements other than those listed in the General Permit Provisos.</li> </ol>	<p>NA</p>
<p><i>Recordkeeping and Reporting Requirements</i></p> <ol style="list-style-type: none"> <li>1. This Source is subject to no additional specific requirements other than those listed in the General Permit Provisos.</li> </ol>	<p>NA</p>

## Operating Permit Summary No. 17

**Emission Unit No.:** 051  
**Company:** 3M Company  
**Description:** 511 Reactor System

**Permitted Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 HRS/YR

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
	511 Reactor System	VOCs	84 tons/12 months	335-3-14

## Provisos For 511 Reactor System

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. This unit is subject to synthetic minor PSD emission limitations.</li> <li>3. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart FFFF.</li> <li>4. This source is subject to the requirements of the National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing, 40 CFR Part 63, Subpart FFFF.</li> <li>5. This source is an affected source for the MON MACT (40 CFR Part 63, Subpart FFFF). However, since there are no HAP emissions associated with this source, there are no monitoring, record-keeping, and reporting requirements that would be applicable under the MON MACT.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 334-3-14-.04</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p>
<p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. VOC emissions from the 511 Reactor System shall not exceed 84 tons in any 12 month period.</li> </ol>	<p>ADEM Admin. Code R. 335-3-14</p>
<p><i>Compliance and Performance Test Methods and Procedures</i></p> <ol style="list-style-type: none"> <li>1. Compliance with the VOC emission rates shall be determined by Reference Method 18 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</li> </ol>	<p>ADEM Admin. Code R. 335-3-1-.05</p>
<p><i>Emission Monitoring</i></p> <ol style="list-style-type: none"> <li>1. This Source is subject to no additional specific requirements other than those listed in the General Permit Provisos.</li> </ol>	<p>NA</p>

Federally Enforceable Provisos	Regulations
<p><i>Recordkeeping and Reporting Requirements</i></p> <ol style="list-style-type: none"> <li>1. Records of all products in each family of products, the monthly production of each product, the monthly VOC emissions for each product, and an emission factor for each product shall be maintained on site at the facility for a period of at least 5 years from the date of generation and shall be readily accessible for inspection.</li> <li>2. A written report shall be submitted to this Department on a semi-annual basis detailing the VOC emissions from this reactor system. This report shall be submitted no later than 60 days after the semiannual period end dates of June 30 and December 31. Each report should include the following information: <ol style="list-style-type: none"> <li>(1) A listing of each family of products produced during the semi-annual period</li> <li>(2) The quantity of each family of products produced each month during the semi-annual period</li> <li>(3) The monthly VOC emissions for each family of products during the semi-annual period, and</li> <li>(4) The rolling 12 month cumulative total of VOC emissions each month in the reporting period for all products produced in the reactor system.</li> </ol> </li> <li>3. Should the VOC emissions from the 511 Reactor System exceed the 84 ton/12 month emission limit, the Department must be notified within 35 days of the last day of the month for which the exceedance occurred.</li> </ol>	<p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p>

## Operating Permit Summary No. 18

**Emission Unit No.:** 092

**Company:** 3M Company

**Description:** 408 Reactor System Washing and Drying

**Permitted Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 HRS/YR

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
04-PV-560, 04-BT-606, 04-PV-011, 04-PV-023	Raw material Addition vents (2), cutter filter vents (2)	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
04-PV-560, 04-BT-606, 04-PV-011, 04-PV-023	Raw material Addition vents (2), cutter filter vents (2)	PM	$E = 3.59P^{0.62}$	335-3-4-.04(1)

## Provisos For 408 Reactor System Washing and Drying

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart FFFF.</li> <li>3. This source is subject to the requirements of the National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing, 40 CFR Part 63, Subpart FFFF.</li> <li>4. This source is an affected source for the MON MACT (40 CFR Part 63, Subpart FFFF). However, since there are no HAP emissions associated with this source, there are no monitoring, record-keeping, and reporting requirements that would be applicable under the MON MACT.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p>
<p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. This unit shall not discharge into the atmosphere, particulate of an opacity greater than 20% as determined by a six minute average, except for one 6 minute period in any sixty minute period of not greater than 40%.</li> <li>2. Particulate emissions from the above noted sources shall not exceed the amount as noted below:  <math display="block">E = 3.59P^{0.62}</math> Where E = Emissions in lb/hr  P = Process Weight in TPH (P ≤ 30 TPH)</li> </ol>	<p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 334-3-4-.04(1)</p>
<p><i>Compliance and Performance Test Methods and Procedures</i></p> <ol style="list-style-type: none"> <li>1. Compliance with the particulate requirements shall be determined by Reference Method 5 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</li> <li>2. Compliance with the opacity requirements shall be determined by Reference Method 9 in Appendix A of</li> </ol>	<p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R.</p>

Federally Enforceable Provisos	Regulations
<p>40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p><i>Emission Monitoring</i></p> <p>1. As an indicator of compliance with the particulate and opacity emission limits, weekly visual observations of each of the following emission points shall be conducted by personnel familiar with Method 9, on days when the underlying process/emission unit is operating. If visible emissions are observed, the facility shall investigate and initiate any necessary corrective actions within 4 hours. After any corrective actions, an additional observation shall be performed in order to verify that emissions are no longer observed:</p> <p>04-PV-011, 04-PV-023.</p> <p><i>Recordkeeping and Reporting Requirements</i></p> <p>1. Records of the required weekly visual inspections shall be maintained and should be readily available for inspection for a period of five years. These records shall include the date and results of the visual inspections. If visible emissions are observed, the records shall include the date and time of the initial observation, a description of the corrective actions taken, the date and time of the initial corrective action attempt, and the results of the follow-up visual inspection.</p>	<p>335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-16-.05(c)(1)(ii)</p> <p>ADEM Admin. Code R. 335-3-16-.05(c)</p>

## Operating Permit Summary No. 19

**Emission Unit No.:** 063

**Company:** 3M Company

**Description:** Vinylidene Fluoride (VDF) Manufacturing Unit and VDF Loading Station

**Permitted Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 HRS/YR

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
MS-1	Furnace	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
V-2	Carbon Bed Adsorption Unit	VOCs	15.8 lb/hr	335-3-14
	VDF Unit and VDF Loading Station	VOCs	LDAR Program equivalent to Subpart H of HON	335-3-14

## Provisos For VDF Unit

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. This unit is subject to synthetic minor PSD emission limitations.</li> <li>3. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart FFFF.</li> <li>4. This source is subject to the requirements of the National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing, 40 CFR Part 63, Subpart FFFF.</li> <li>5. This source is an affected source for the MON MACT (40 CFR Part 63, Subpart FFFF). However, since there are no HAP emissions associated with this source, there are no monitoring, record-keeping, and reporting requirements that would be applicable under the MON MACT.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 334-3-14-.04</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p>
<p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. The furnace, emission point MS-1, shall not discharge into the atmosphere, particulate of an opacity greater than 20% as determined by a six minute average, except for one 6 minute period in any sixty minute period of not greater than 40%.</li> <li>2. VOC emissions from the carbon bed adsorber shall not exceed 15.8 lb/hr.</li> <li>3. A carbon bed adsorption unit shall be utilized to control VOC emissions from the manufacturing unit and loading station as specified in the permit application.</li> <li>4. A written plan shall be maintained and followed detailing procedures to ensure that breakthrough does not occur on the carbon bed adsorption unit. This plan shall include, at a minimum, the following information:</li> </ol>	<p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 334-3-14</p> <p>ADEM Admin. Code R. 334-3-14</p> <p>ADEM Admin. Code R. 334-3-14</p>

Federally Enforceable Provisos	Regulations
<ul style="list-style-type: none"> <li>(a) The method by which breakthrough would be determined (i.e., portable analyzer, etc.)</li> <li>(b) The frequency in which the carbon bed outlet vent would be tested</li> <li>(c) The criteria for determining when the carbon bed should be regenerated and/or replaced.</li> </ul>	
<p>5. The VDF manufacturing unit and loading station shall implement a Leak Detection and Repair Program equivalent to Subpart H of 40 CFR Part 63 for all components in VOC service.</p>	<p>ADEM Admin. Code R. 334-3-14</p>
<p>6. Leak Detection and Repair Standards equivalent to those listed in 40 CFR 63.162 – 63.179, shall be followed, as applicable, for all components in VOC service.</p>	<p>ADEM Admin. Code R. 334-3-14</p>
<p><i>Compliance and Performance Test Methods and Procedures</i></p>	
<p>1. Compliance with the opacity requirements shall be determined by Reference Method 9 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p>	<p>ADEM Admin. Code R. 335-3-1-.05</p>
<p>2. Compliance with the VOC emission rates shall be determined by Reference Method 18 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p>	<p>ADEM Admin. Code R. 335-3-1-.05</p>
<p>3. The test methods and procedures equivalent to those listed in 63.180 of Subpart H of the HON shall be followed, as applicable, for all components in VOC service.</p>	<p>ADEM Admin. Code R. 334-3-14</p>
<p><i>Emission Monitoring</i></p>	
<p>1. As an indicator of compliance with the VOC emission limit on the carbon bed adsorption unit, the average daily VOC emissions, in lb/hr, shall be calculated using a gas analyzer and a flow meter.</p>	<p>ADEM Admin. Code R. 335-3-16-.05(c)(1)(ii)</p>
<p><i>Recordkeeping and Reporting Requirements</i></p>	
<p>1. Records of the average daily VOC emissions from the carbon bed adsorption unit, in lb/hr, shall be maintained and be readily accessible for inspection</p>	<p>ADEM Admin. Code R. 335-3-16-.05(c)</p>

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
for a period of 5 years.	
<p>2. Recordkeeping and reporting requirements equivalent to those of 63.181 and 63.182 of Subpart H of the HON shall be followed, as applicable, for all components in VOC service.</p> <p>3. Semiannual Subpart H HON Reports equivalent to those specified in 63.182(d) of Subpart H of the HON shall be submitted, as applicable, for all components in VOC service. This report shall be submitted no later than 90 days after the semiannual period end dates of April 30 and October 31.</p>	<p>ADEM. Admin. Code R. 335-3-14</p> <p>ADEM. Admin. Code R. 335-3-14</p>

## Operating Permit Summary No. 20

**Emission Unit No.:** 064

**Company:** 3M Company

**Description:** Polyvinylidene Fluoride (PVDF) Manufacturing Unit

**Permitted Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 HRS/YR

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
EV-4, EV-6, EV-7, EV-8	Fluid Bed Dryer Vent Filter, Powder Storage Bin (FA-010), Powder Storage Bin (FA-011), Master Batch Powder Storage Bin (FA-000)	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
EV-4, EV-6, EV-7, EV-8	Fluid Bed Dryer Vent Filter, Powder Storage Bin (FA-010), Powder Storage Bin (FA-011), Master Batch Powder Storage Bin (FA-000)	PM	$E = 3.59P^{0.62}$	335-3-4-.04(1)
EV-4	Fluid Bed Dryer Vent Filter	PM	0.56 lb/hr	335-3-4-.04(1)
EV-6	Powder Storage Bin (FA-010)	PM	0.51 lb/hr	335-3-4-.04(1)
EV-7	Powder Storage Bin (FA-011)	PM	0.51 lb/hr	335-3-4-.04(1)
EV-8	Master Batch Powder Storage Bin (FA-000)	PM	0.08 lb/hr	335-3-4-.04(1)
V-2	Carbon Bed Adsorption Unit	VOCs	15.8 lb/hr	335-3-14
V-2	Carbon Bed Adsorption Unit	HAPs	Subpart FFFF	335-3-11-.06(83)
	PVDF Unit	VOCs	LDAR Program equivalent to Subpart H of HON	335-3-14

## Provisos For PVDF Unit

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart FFFF.</li> <li>3. This source is subject to the requirements of the National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing, 40 CFR Part 63, Subpart FFFF.</li> <li>4. This source is an affected source for the MON MACT (40 CFR Part 63, Subpart FFFF). However, since there are no HAP emissions associated with this source, there are no monitoring, record-keeping, and reporting requirements that would be applicable under the MON MACT.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p>
<p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. Emission points EV-4, EV-6, EV-7, EV-8 shall not discharge into the atmosphere, particulate of an opacity greater than 20% as determined by a six minute average, except for one 6 minute period in any sixty minute period of not greater than 40%.</li> <li>2. Particulate emissions from the above noted sources shall not exceed the amount as noted below:  <math display="block">E = 3.59P^{0.62}</math> Where E = Emissions in lb/hr  P = Process Weight in TPH (P ≤ 30 TPH)</li> <li>3. Particulate emissions from emission point EV-4 shall not exceed 0.56 lb/hr.</li> <li>4. Particulate emissions from emission point EV-6 shall not exceed 0.51 lb/hr.</li> <li>5. Particulate emissions from emission point EV-7 shall not exceed 0.51 lb/hr.</li> <li>6. Particulate emissions from emission point EV-8 shall</li> </ol>	<p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 334-3-4-.04(1)</p> <p>ADEM Admin. Code R. 334-3-4-.04(1)</p> <p>ADEM Admin. Code R. 334-3-4-.04(1)</p> <p>ADEM Admin. Code R. 334-3-4-.04(1)</p> <p>ADEM Admin. Code R.</p>

Federally Enforceable Provisos	Regulations
<p>not exceed 0.08 lb/hr. This emission point is located inside a building.</p> <p>7. VOC emissions from the carbon bed adsorber shall not exceed 15.8 lb/hr.</p> <p>8. A carbon bed adsorption unit shall be utilized to control VOC emissions from this unit as specified in the permit application.</p> <p>9. A written plan shall be maintained and followed detailing procedures to ensure that breakthrough does not occur on the carbon bed adsorption unit. This plan shall include, at a minimum, the following information:</p> <ol style="list-style-type: none"> <li>The method by which breakthrough would be determined (i.e., portable analyzer, etc.)</li> <li>The frequency in which the carbon bed outlet vent would be tested</li> <li>The criteria for determining when the carbon bed should be regenerated and/or replaced.</li> </ol> <p>10. This unit shall implement a Leak Detection and Repair Program equivalent to Subpart H of 40 CFR Part 63 for all components in VOC service.</p> <p>11. Leak Detection and Repair Standards equivalent to those listed in 40 CFR 63.162 – 63.179, shall be followed, as applicable, for all components in VOC service.</p>	<p>334-3-4-.04(1)</p> <p>ADEM Admin. Code R. 334-3-14</p> <p>ADEM Admin. Code R. 334-3-14</p> <p>ADEM Admin. Code R. 334-3-14</p> <p>ADEM Admin. Code R. 334-3-14</p> <p>ADEM Admin. Code R. 334-3-14</p>
<p><i>Compliance and Performance Test Methods and Procedures</i></p> <p>1. Compliance with the opacity requirements shall be determined by Reference Method 9 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p>2. Compliance with the particulate requirements shall be determined by Reference Method 5 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p>3. Compliance with the VOC emission rates shall be determined by Reference Method 18 in Appendix A of 40 CFR 60. Alternate test methods may be used</p>	

Federally Enforceable Provisos	Regulations
<p>provided prior approval by the Department is granted.</p> <p>4. The test methods and procedures equivalent to those listed in 63.180 of Subpart H of the HON shall be followed, as applicable, for all components in VOC service.</p> <p><i>Emission Monitoring</i></p> <p>1. As an indicator of compliance with the VOC emission limit on the carbon bed adsorption unit, the average daily VOC emissions, in lb/hr, shall be calculated using a gas analyzer and a flow meter.</p> <p>1. As an indicator of compliance with the particulate and opacity emission limits, weekly visual observations of emission points EV-4, EV-6, and EV-7 shall be conducted by personnel familiar with Method 9, on days when the underlying process/emission unit is operating. If visible emissions are observed, the facility shall investigate and initiate any necessary corrective actions within 4 hours. After any corrective actions, an additional observation shall be performed in order to verify that emissions are no longer observed.</p> <p>3. For each of the following emissions points that are located inside a building with no outside exit to the atmosphere, a Method 9 would not be required. Each emission point shall be inspected once per year to ensure operational integrity. If visible emissions are observed at any time, the facility shall investigate and initiate any necessary corrective actions within 4 hours. After any corrective actions, an additional observation shall be performed in order to verify that emissions are no longer observed:</p> <p>EV-8</p> <p><i>Recordkeeping and Reporting Requirements</i></p> <p>1. Records of the average daily VOC emissions from the carbon bed adsorption unit, in lb/hr, shall be maintained and be readily accessible for inspection for a period of 5 years.</p> <p>1. Records of the required weekly visual inspections shall be maintained and should be readily available</p>	<p>ADEM Admin. Code R. 334-3-14</p> <p>ADEM Admin. Code R. 335-3-16-.05(c)(1)(ii)</p> <p>ADEM Admin. Code R. 335-3-16-.05(c)(1)(ii)</p> <p>ADEM Admin. Code R. 335-3-16-.05(c)(1)(ii)</p> <p>ADEM Admin. Code R. 335-3-16-.05(c)</p> <p>ADEM Admin. Code R.</p>

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<p>for inspection for a period of five years. These records shall include the date and results of the visual inspections. If visible emissions are observed, the records shall include the date and time of the initial observation, a description of the corrective actions taken, the date and time of the initial corrective action attempt, and the results of the follow-up visual inspection.</p> <p>2. For the emission points that vent inside a building, Records of the required annual inspections shall be maintained and should be readily available for inspection for a period of five years. These records shall include the date and results of the annual inspection for operational integrity. If visible emissions are observed, the records shall include the date and time of the initial observation, a description of the corrective actions taken, the date and time of the initial corrective action attempt, and the results of the follow-up visual inspection.</p> <p>3. Recordkeeping and reporting requirements equivalent to those of 63.181 and 63.182 of Subpart H of the HON shall be followed, as applicable, for all components in VOC service.</p> <p>4. Semiannual Subpart H HON Reports equivalent to those specified in 63.182(d) of Subpart H of the HON shall be submitted, as applicable, for all components in VOC service. This report shall be submitted no later than 90 days after the semiannual period end dates of April 30 and October 31.</p>	<p>335-3-16-.05(c)</p> <p>ADEM Admin. Code R. 335-3-16-.05(c)</p> <p>ADEM. Admin. Code R. 335-3-14</p> <p>ADEM. Admin. Code R. 335-3-14</p>

## Operating Permit Summary No. 21

**Emission Unit No.:** 100

**Company:** 3M Company

**Description:** Forming Machine and Mixing Tanks

**Permitted Operating**

**Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 HRS/YR

**Emission Limitations:**

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
Building 1	Forming Machine and Mixing Tanks	VOC	NA	NA
Building 1	Forming Machine and Mixing Tanks	HAP	40 CFR Part 63, Subpart FFFF	335-3-11-.06(83)
Building 1	Mixing Tanks	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
Building 1	Forming Machine and Mixing Tanks	PM	$E = 3.59P^{0.62}$	335-3-4-.04(1)

## Provisos For Forming Machine and Mixing Tanks

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart FFFF.</li> <li>3. This source is subject to the requirements of the National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing, 40 CFR Part 63, Subpart FFFF.</li> </ol> <p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. This unit shall not discharge into the atmosphere, particulate of an opacity greater than 20% as determined by a six minute average, except for one 6 minute period in any sixty minute period of not greater than 40%.</li> <li>2. Particulate emissions from the above noted sources shall not exceed the amount as noted below:  <math display="block">E = 3.59P^{0.62}</math> Where E = Emissions in lb/hr  P = Process Weight in TPH (<math>P \leq 30</math> TPH)</li> </ol> <p><i>Compliance and Performance Test Methods and Procedures</i></p> <ol style="list-style-type: none"> <li>1. Compliance with the opacity requirements shall be determined by Reference Method 9 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</li> </ol> <p><i>Emission Monitoring</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 334-3-4-.04(1)</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>NA</p>

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<p><i>Recordkeeping and Reporting Requirements</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos.</li> <li>2. This source is subject to the recordkeeping (63.2525) and reporting requirements (63.2520) of the MON MACT. This report shall be submitted no later than 60 days after the semiannual period end dates of June 30 and December 31.</li> </ol>	<p>NA</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p>

## Operating Permit Summary No. 22

**Emission Unit No.:** 048

**Company:** 3M Company

**Description:** Building 3 and 4 Reactor Systems

**Permitted Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 HRS/YR

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
	Building 3 and 4 Reactor Systems Vents	VOC	176,904 lbs/12 months	335-3-14
	Building 3 and 4 Reactor Systems Vents	HAP	40 CFR Part 63, Subpart FFFF	335-3-11-.06(83)
	Building 3 and 4 Reactor Systems	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
	Building 3 and 4 Reactor Systems	PM	$E = 3.59P^{0.62}$	335-3-4-.04(1)
03-PC-453	340 Reactor System Scrubber Vent	HF	0.3 lb/hr	335-3-14
	Building 3 and 4 Reactor System Wastewater	HAP		335-3-11-.06(83)

## Provisos For Building 3 and 4 Reactor Systems

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. This unit is subject to synthetic minor PSD emission limitations.</li> <li>3. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart FFFF.</li> <li>4. This source is subject to the requirements of the National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing, 40 CFR Part 63, Subpart FFFF.</li> </ol> <p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. This unit shall not discharge into the atmosphere, particulate of an opacity greater than 20% as determined by a six minute average, except for one 6 minute period in any sixty minute period of not greater than 40%.</li> <li>2. Particulate emissions from emission point 03-PC-453 shall not exceed the amount as noted below:  <math display="block">E = 3.59P^{0.62}</math> Where E = Emissions in lb/hr  P = Process Weight in TPH (<math>P \leq 30</math> TPH)</li> <li>3. VOC emissions from the Building 3 and 4 Reactor Systems shall be limited to no greater than 176,904 lbs. during any 12 month period.</li> <li>4. HF emissions from the 340 reactor system shall not exceed 0.3 lb/hr.</li> <li>5. Wastewater from the Building 3 and 4 Reactor Systems shall be sent to a steam stripper. The steam stripper shall be properly maintained and operated in order to minimize emissions. Otherwise, wastewater shall be sent to the wastewater treatment facility.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 334-3-14-.04</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 334-3-4-.04(1)</p> <p>ADEM Admin. Code R. 334-3-14</p> <p>ADEM Admin. Code R. 334-3-14</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p>

Federally Enforceable Provisos	Regulations
<p>6. The leak detection and repair provisions of 40 CFR Part 63, Subpart H or Subpart UU shall be followed as referenced under 63.2480(a) with the differences noted in 63.2480(b) and 63.2480(d).</p> <p><i>Compliance and Performance Test Methods and Procedures</i></p> <p>1. Compliance with the opacity requirements shall be determined by Reference Method 9 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p>2. Compliance with the VOC emission rates shall be determined by Reference Method 18 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p>3. Compliance with the HF emission rate shall be determined by Reference Method 26A in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p><i>Emission Monitoring</i></p> <p>1. As an indicator of compliance with the HF emission limit on the 340 Reactor System, the water flow rate to the 340 scrubber shall be maintained at <math>\geq 17</math> gpm during production of HF emitting products. The flow should be monitored and recorded once per day when producing HF emitting products.</p> <p>2. As an indicator of compliance with the HAP Emissions from the steam stripper, the minimum feed temperature shall be 203°F and the minimum steam to feed ratio shall be 0.04 kg/liter. The temperature and feed ratio shall be recorded continuously by electronic historian recording values at least once every 15 minutes, with daily averages of 203°F and 0.04 kg/liter or greater to indicate compliance.</p>	<p>ADEM Admin. Code R. 335-3-11-.06(83)</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-16-.05(c)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p>

Federally Enforceable Provisos	Regulations
<p><i>Recordkeeping and Reporting Requirements</i></p> <ol style="list-style-type: none"> <li>1. Records of all products in each family of products, the monthly production of each product, the monthly VOC emissions for each product, and an emission factor for each product for each reactor system shall be maintained on site at the facility for a period of at least 5 years from the date of generation and shall be readily accessible for inspection.</li> <li>2. A written report shall be submitted to this Department on a semi-annual basis detailing the VOC emissions from these reactor systems. This report shall be submitted no later than 60 days after the semiannual period end dates of June 30 and December 31. Each report should include the following information: <ol style="list-style-type: none"> <li>(1) A listing of each family of products produced during the semi-annual period</li> <li>(2) The quantity of each family of products produced each month during the semi-annual period</li> <li>(3) The monthly VOC emissions for each family of products during the semi-annual period, and</li> <li>(4) The rolling 12 month cumulative total of VOC emissions each month in the reporting period for all products produced in the reactor system.</li> </ol> </li> <li>3. Should the VOC emissions from the reactor systems associated with this unit exceed the emission limit, the Department must be notified within 35 days of the last day of the month for which the exceedance occurred.</li> <li>4. Primary product determinations and applicability shall be followed as specified in 63.2535(l) of Subpart FFFF.</li> <li>5. This source is subject to the recordkeeping (63.2525) and reporting requirements (63.2520) and the 365-day rolling HAP records (63.2525 (e)) of the MON MACT.</li> <li>6. During production of HF emitting products, daily records of the 340 Reactor System scrubber water</li> </ol>	<p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p> <p>ADEM Admin. Code R. 335-3-16-.05(c)</p>

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<p>flow rate shall be maintained and be readily available for inspection for a period of 5 years.</p> <p>7. Periodic (Compliance) reports as specified under 63.2520 shall be submitted no later than 60 days after the semi-annual period end dates of June 30 and December 31.</p>	<p>ADEM Admin. Code R. 335-3-11-.06(83)</p>

## Operating Permit Summary No. 23

**Emission Unit Nos.:** 029 and 035

**Company:** 3M

**Description:** Tanks and Transfer Rack Vented to the Hazardous Waste Area  
Scrubber and Carbon Bed Adsorption System

**Permitted Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
029	30,000 Gallon Waste Solvent Tank (598-A-01)	VOC	Subpart Kb	335-3-10-.02(9)(b)
035	20,000 Gallon Waste Solvent Tank (598-A-03)	VOC	Subpart Kb	335-3-10-.02(9)(b)
029	30,000 Gallon Waste Solvent Tank (598-A-01)	HAP	Subpart FFFF	335-3-11-.06(83)
035	20,000 Gallon Waste Solvent Tank (598-A-03)	HAP	Subpart FFFF	335-3-11-.06(83)

## Provisos For Tanks and Transfer Rack Vented to the Hazardous Waste Area Scrubber and Carbon Bed Adsorption System

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. These sources are subject to the requirements of the General Provisions as indicated in 40 CFR Part 60, Subpart A, unless otherwise stated in 40 CFR Part 60, Subpart Kb.</li> <li>3. These sources are subject to the Federal New Source Performance Standards (NSPS) for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, as specified in 40 CFR Part 60, Subpart Kb.</li> <li>4. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart FFFF.</li> <li>5. This source is subject to the requirements of the National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing, 40 CFR Part 63, Subpart FFFF.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 335-3-10-.02(1)</p> <p>ADEM Admin. Code R. 335-3-10-.02(9)(b)</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p>
<p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. The maximum true vapor pressure of VOLs stored in Tank Nos. 598-A-01 and 598-A-03, which have capacities greater than or equal to 75 m<sup>3</sup> (19,812 gallons) but less than 151 m<sup>3</sup> (39,889 gallons), shall be less than 27.6 kPa (4.02 psia) such that the control requirements of 60.112b are not applicable.</li> <li>2. Each of these tanks shall be vented to the hazardous waste storage area scrubber and carbon bed adsorption system.</li> <li>3. The scrubber shall be operated in such a manner as to achieve a HAP control efficiency of at least 98%.</li> </ol>	<p>ADEM Admin. Code R. 335-3-10-.02(9)(b)</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p>

Federally Enforceable Provisos	Regulations
<p><i>Compliance and Performance Test Methods and Procedures</i></p> <ol style="list-style-type: none"> <li>1. The methods and procedures for determining the maximum true vapor pressures of the materials stored in the above noted storage tanks shall be in accordance with 60.111b(f) of Subpart Kb.</li> <li>2. Compliance with the HAP emission rates shall be determined by Reference Method 21 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</li> </ol> <p><i>Emission Monitoring</i></p> <ol style="list-style-type: none"> <li>1. As an indicator of compliance with the HAP control efficiency of the tanks scrubber, water flow rates shall be monitored and maintained at 1.6 gpm, based on hourly averages, during operations involving application of solvent additives on days when the underlying process/emissions unit is operating.</li> </ol> <p><i>Recordkeeping and Reporting Requirements</i></p> <ol style="list-style-type: none"> <li>1. The recordkeeping requirements of 60.116b(a) and (b) shall be followed for each of these sources.</li> <li>2. Readily accessible records showing the dimensions and an analysis showing the capacity of each storage vessel shall be maintained for the life of the source.</li> <li>3. A record of the VOL stored, the period of storage, and the maximum true vapor pressure of the VOL during the respective storage period in Tank Nos. 598-A-01 and 598-A-03 shall be maintained as required by 60.116b(c) of Subpart Kb.</li> <li>4. This source is subject to the recordkeeping (63.2525) and reporting requirements (63.2520) of the MON MACT. This report shall be submitted no later than 60 days after the semiannual period end dates of June 30 and December 31.</li> </ol>	<p>ADEM Admin. Code R. 335-3-10-.02(9)(b)</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p> <p>ADEM Admin. Code R. 335-3-10-.02(9)(b)</p> <p>ADEM Admin. Code R. 335-3-10-.02(9)(b)</p> <p>ADEM Admin. Code R. 335-3-10-.02(9)(b)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p>

## Operating Permit Summary No. 24

**Emission Unit Nos.:** 040, 041

**Company:** 3M

**Description:** Tanks and Transfer Racks Vented to the Resin Tanks Scrubber

**Permitted Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
040	36,000 Gallon Recovered Methanol Tank (1961-A-224)	VOC/HAP	Subpart JJJ (Group 1)	335-3-11-.06(61)
041	30,000 Gallon Recovered Ethylene Glycol Tank (1961-A-233)	VOC	Subpart Kb	335-3-10-.02(9)(b)
	Tank No. 1961-A-224 Transfer Rack	HAP	Subpart EEEE	335-3-11-.06(82)

## Provisos For Tanks and Transfer Rack Vented to the Resin Tanks Scrubber

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. Tank No. 1961-A-224 is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart JJJ.</li> <li>3. Tank No. 1961-A-224 is subject to the requirements of the National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins, 40 CFR Part 63, Subpart JJJ.</li> <li>4. Tank No. 1961-A-233 is subject to the requirements of the General Provisions as indicated in 40 CFR Part 60, Subpart A, unless otherwise stated in 40 CFR Part 60, Subpart Kb.</li> <li>5. Tank No. 1961-A-233 is subject to the Federal New Source Performance Standards (NSPS) for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, as specified in 40 CFR Part 60, Subpart Kb.</li> <li>6. Tank No. 1961-A-224 Transfer Rack is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart EEEE.</li> <li>7. Tank No. 1961-A-224 Transfer Rack is subject to the requirements of the National Emission Standards for Hazardous Air Pollutant Emissions: Organic Liquids Distribution (Non-Gasoline), Subpart EEEE.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(61)</p> <p>ADEM Admin. Code R. 335-3-10-.02(1)</p> <p>ADEM Admin. Code R. 335-3-10-.02(9)(b)</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(82)</p>
<p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. Tank No. 1961-A-224 shall comply with the storage vessel provisions of 63.1314 of Subpart JJJ, as applicable.</li> <li>2. Tank No. 1961-A-224 shall comply with the storage</li> </ol>	<p>ADEM Admin. Code R. 335-3-11-.06(61)</p> <p>ADEM Admin. Code R.</p>

Federally Enforceable Provisos	Regulations
<p>vessel reference control technology of 63.119 as referenced in 63.1314 of Subpart JJJ, as applicable, with the differences noted in 63.1314(a)(1) through (a)(17).</p> <p>3. HAP emissions from Tank No. 1961-A-224 shall be reduced by operating and maintaining a closed vent system and control device in accordance with 63.119, as referenced in 63.1314 of Subpart JJJ, with the differences noted in 63.1314(a)(1) through (a)(17).</p> <p>4. The scrubber shall be designed and operated to reduced inlet emissions of total organic HAP by 95% or greater in accordance with 63.119(e)(1) as referenced in 63.1314 of Subpart JJJ with the differences noted in 63.1314(a)(1) through (a)(17).</p> <p>5. Periods of planned routine maintenance of the scrubber when the 95% HAP removal efficiency is not met shall not exceed 240 hours per year as specified in 63.119(e)(3) as referenced in 63.1314 of Subpart JJJ with the differences noted in 63.1314(a)(1) through (a)(17).</p> <p>6. The maximum true vapor pressure of the materials stored in Tank No. 1961-A-224 shall not exceed 3.43 psia.</p> <p>7. The maximum true vapor pressure of VOLs stored in Tank No. 1961-A-233 shall not exceed 0.433 psia.</p> <p>8. These storage tanks shall be vented to a scrubber. The scrubber shall be properly maintained and operated in order to minimize emissions.</p>	<p>335-3-11-.06(61)</p> <p>ADEM Admin. Code R. 335-3-11-.06(61)</p> <p>ADEM Admin. Code R. 335-3-11-.06(61)</p> <p>ADEM Admin. Code R. 335-3-11-.06(61)</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p>
<p><i>Compliance and Performance Test Methods and Procedures</i></p> <p>1. The procedures to determine compliance for Tank No. 1961-A-224 as listed in 63.120 shall be followed as applicable, as referenced in 63.1314 of Subpart JJJ with the differences noted in 63.1314(a)(1) through (a)(17).</p> <p>2. Parameter monitoring levels and excursions shall be defined as specified in 63.1334 of Subpart JJJ.</p> <p>3. The maximum true vapor pressure of the materials stored in Tank No. 1961-A-224 shall be determined as specified in 60.111 as referenced in 63.1312 of Subpart JJJ with the exceptions as noted in</p>	

Federally Enforceable Provisos	Regulations
<p>63.1312.</p> <p>4. The methods and procedures for determining the maximum true vapor pressures of the materials stored in Tank No. 1961-A-233 shall be in accordance with 60.111b(f) of Subpart Kb.</p> <p><i>Emission Monitoring</i></p> <p>1. The scrubber water flow rate shall be continuously monitored and shall be maintained at a flow rate of at least 27 gpm in accordance with 63.120(d)(5) as referenced in 63.1314 of Subpart JJJ with the differences noted in 63.1314(a)(1) through (a)(17).</p> <p>2. The closed vent system for Tank No. 1961-A-224 shall be inspected as specified in 63.148 as referenced in 63.1314 of Subpart JJJ with the differences noted in 63.1314(a)(1) through (a)(17).</p> <p>3. Annual visual inspections for visible, audible, or olfactory indications of leaks shall be performed on the closed vent system for Tank No. 1961-A-224 as specified in 63.148(b)(1), as referenced in 63.1314 of Subpart JJJ with the differences noted in 63.1314(a)(1) through (a)(17).</p> <p><i>Recordkeeping and Reporting Requirements</i></p> <p>1. The reporting requirements for Tank No. 1961-A-224 as listed in 63.122 shall be followed as referenced in 63.1314 of Subpart JJJ with the differences noted in 63.1314(a)(1) through (a)(17).</p> <p>2. Periodic Reports for Tank No. 1961-A-224 shall be submitted no later than 60 days after the semi-annual period end dates of June 30 and December 31.</p> <p>3. The recordkeeping provisions of 63.123 for Tank No. 1961-A-224 shall followed as referenced in 63.1314 of Subpart JJJ with the differences noted in 63.1314(a)(1) through (a)(17).</p> <p>4. As specified in 63.123(a), records showing the dimensions and capacity of Tank No. 1961-A-224 shall be maintained and be readily accessible as long as this tank is designated as a Group 1 or Group 2 Storage Vessel as referenced in 63.1314 of Subpart JJJ with</p>	<p>ADEM Admin. Code R. 335-3-10-.02(9)(b)</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p>

Federally Enforceable Provisos	Regulations
<p>the differences noted in 63.1314(a)(1) through (a)(17).</p> <p>5. Readily accessible records of the scrubber water flow and the planned routine maintenance performed on the scrubber when the 95% HAP efficiency is not achieved shall be maintained as specified in 63.123 as referenced in 63.1314 of Subpart JJJ with the differences noted in 63.1314(a)(1) through (a)(17).</p> <p>6. Recordkeeping and reporting as specified in 63.1335 of Subpart JJJ shall be followed for Tank No. 1961-A-224.</p> <p>7. The recordkeeping requirements of 60.116b(a) and (b) of Subpart Kb shall be followed for Tank No. 1961-A-233.</p> <p>8. Readily accessible records showing the dimensions and an analysis showing the capacity of Tank No. 1961-A-233 shall be maintained for the life of the source.</p> <p>9. Reporting as specified in 63.2386(d) of Subpart EEEE shall be followed for Tank 1961-A-224 Transfer Rack. This report shall be submitted no later than 60 days after the semiannual period end dates of June 30 and December 31.</p>	<p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-10-.02(9)(b)</p> <p>ADEM Admin. Code R. 335-3-10-.02(9)(b)</p> <p>ADEM Admin. Code R. 335-3-11-.06(82)</p>

## Operating Permit Summary No. 25

**Emission Unit Nos.:** 095

**Company:** 3M Company

**Description:** 50,000 Gallon Isopropyl Alcohol Tank (Tank No. 101-A-03)

**Permitted Operating  
Schedule:**

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
095	50,000 Gallon Isopropyl Alcohol Tank (101-A-03)	VOC	NA	NA

### Provisos For Tank No. 101-A-03

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <p>1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</p> <p><i>Emission Standards</i></p> <p>1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos</p> <p><i>Compliance and Performance Test Methods and Procedures</i></p> <p>1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos.</p> <p><i>Emission Monitoring</i></p> <p>1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos.</p> <p><i>Recordkeeping and Reporting Requirements</i></p> <p>1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos.</p>	<p>ADEM Admin. Code R. 335-3-16</p> <p>N/A</p> <p>N/A</p> <p>NA</p> <p>N/A</p>

## Operating Permit Summary No. 26

**Emission Unit Nos.:** 069

**Company:** 3M Company

**Description:** PVDF and Elastomer Pilot Reactor Systems

**Permitted Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
51-PC-001	Stack (80 feet)	PM	N/A	
Fugitives	Reactors	VOC	N/A	
	PVDF and Elastomer Pilot Reactor System	VOC	N/A	

## Provisos For PVDF and Elastomer Pilot Reactor Systems

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart FFFF.</li> <li>3. This source is subject to the applicable requirements of the National Emission Standards for Miscellaneous Organic Chemicals, 40 CFR Part 63, Subpart FFFF.</li> <li>4. This source is an affected source for the MON MACT (40 CFR Part 63, Subpart FFFF). However, since there are no HAP emissions associated with this source, there are no monitoring, record-keeping, and reporting requirements that would be applicable under the MON MACT.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p>
<p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos.</li> </ol>	<p>N/A</p>
<p><i>Compliance and Performance Test Methods and Procedures</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos.</li> </ol>	<p>N/A</p>
<p><i>Emission Monitoring</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos.</li> </ol>	<p>NA</p>
<p><i>Recordkeeping and Reporting Requirements</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos.</li> </ol>	<p>N/A</p>

## Operating Permit Summary No. 27

**Emission Unit No.:** 068  
**Company:** 3M Company  
**Description:** D10 Film Line

**Permitted Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 HRS/YR

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
28-PV-1002 & 28-PV-1007 , 28-PV-1003, 28-PV-1004, 28-PV-1005, 28-PV-1006, 28-PV-1001, 14-PC-R202	Resin Feed Hopper, Resin Feed Hopper, Resin Feed Hopper, Resin Feed Hopper, Resin Feed Hopper, Resin Silos, Floor Scrap and Edge Trim Transport,	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
28-PV-1002 & 28-PV-1007	Resin Feed Hopper	PM	0.03 lb/hr	335-3-14
28-PV-1003	Resin Feed Hopper	PM	0.03 lb/hr	335-3-14
28-PV-1004	Resin Feed Hopper	PM	0.03 lb/hr	335-3-14
28-PV-1005	Resin Feed Hopper	PM	0.015 lb/hr	335-3-14
28-PV-1006	Resin Feed Hopper	PM	0.015 lb/hr	335-3-14
28-PV-1001	Resin Silos	PM	0.05 lb/hr	335-3-14
14-PC-R202	Floor Scrap and Edge Trim Transport	PM	0.9 lb/hr	335-3-14

14-PC-1501	Resin Silo Blender Hoppers Dust Collector	PM	0.28 lb/hr	335-3-14
28-PV-2001	D10 Film Line Coater	HAPs	Subpart JJJJ	335-3-11- .06(87)
28-PV-2001	D10 Film Line Coater	VOC	≤ 7 TPY	335-3-14
28-PV-2003 through 28- PV-2019	Ovens	PM, VOC, CO, SO <sub>2</sub> , NO <sub>x</sub>	N/A	N/A

## Provisos For D10 Film Line

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. This unit is subject to synthetic minor PSD emission limitations.</li> <li>3. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart JJJJ.</li> <li>4. This source is subject to the requirements of the National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating, 40 CFR Part 63, Subpart JJJJ.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 335-3-14-.04</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(87)</p>
<p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. This source shall not discharge into the atmosphere, particulate of an opacity greater than 20% as determined by a six minute average, except for one 6 minute period in any sixty minute period of not greater than 40%.</li> <li>2. Particulate emissions from emission points 28-PV-1002, 28-PV-1007, 28-PV-1003, 28-PV-1004, 28-PV-1005, 28-PV-1006, 28-PV-1001, and 14-PC-R202 shall not exceed the amount as noted below:  <math display="block">E = 3.59P^{0.62}</math> <p style="margin-left: 40px;">Where E = Emissions in lb/hr  P = Process Weight in TPH (<math>P \leq 30</math> TPH)</p> </li> <li>3. Particulate emissions from emission point 28-PV-1002, 28-PV-1007, 28-PV-1003, and 28-PV-1004 shall not exceed 0.03 lb/hr each.</li> <li>4. Particulate emissions from emission point 28-PV-1005 and 28-PV-1006 shall not exceed 0.015 lb/hr each.</li> <li>5. Particulate emissions from emission point 28-PV-1001 shall not exceed 0.05 lb/hr.</li> </ol>	<p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 334-3-4-.04(1)</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p>

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<p>6. Particulate emissions from emission point 14-PC-R201 and 14-PC-R202 shall not exceed 0.9 lb/hr.</p> <p>7. Particulate emissions from emission point 14-PC-1501 shall not exceed 0.28 lb/hr.</p> <p>8. Emission of VOCs from the coating line associated with this unit shall not exceed 7.0 tons per year in any consecutive rolling 12 month period based upon the premise that all VOCs applied are emitted.</p> <p>9. The emission standards of 63.3320 of Subpart JJJJ shall be followed as applicable upon the compliance date.</p>	<p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-11-.06(87)</p>
<p><i>Compliance and Performance Test Methods and Procedures</i></p> <p>1. Compliance with the particulate requirements shall be determined by Reference Method 5 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p>2. Compliance with the opacity requirements shall be determined by Reference Method 9 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p>3. Compliance with the VOC content (in pounds per gallon) of each VOC containing material used on the coating line shall be determined by Reference Method 24 in Appendix A of 40 CFR 60 or equivalent vendor data approved by the Department in advance. Alternate test methods may be used provided prior approval by the Department is granted.</p> <p>4. The performance tests as specified in 63.3360 of Subpart JJJJ shall be followed, as applicable, upon the compliance date.</p> <p>5. Compliance with the emission standards of Subpart JJJJ shall be determined as specified in 63.3370 of Subpart JJJJ, as applicable, upon the compliance date.</p>	

Federally Enforceable Provisos	Regulations
<p><i>Emission Monitoring</i></p> <ol style="list-style-type: none"> <li>1. As an indicator of compliance with the particulate and opacity emission limits, weekly visual observations of each of the following emission points as indicated below shall be conducted by personnel familiar with Method 9, on days when the underlying process/emission unit is operating. If visible emissions are observed, the facility shall investigate and initiate any necessary corrective actions within 4 hours. After any corrective actions, an additional observation shall be performed in order to verify that emissions are no longer observed:  28-PV-1002, 28-PV-1007, 28-PV-1003, 28-PV-1004, 28-PV-1005, 28-PV-1006, 28-PV-1001, 14-PC-R202, and 14-PC-1501</li> <li>2. The VOC content (in pounds per gallon) of each VOC containing material used on the coating line shall be determined. Additional testing may be required at other times upon the Department's request.</li> <li>3. The monitoring requirements of 63.3350 of Subpart JJJJ shall be followed as applicable upon the compliance date.</li> </ol> <p><i>Recordkeeping and Reporting Requirements</i></p> <ol style="list-style-type: none"> <li>1. Records of the required weekly visual inspections shall be maintained and should be readily available for inspection for a period of five years. These records shall include the date and results of the visual inspections. If visible emissions are observed, the records shall include the date and time of the initial observation, a description of the corrective actions taken, the date and time of the initial corrective action attempt, and the results of the follow-up visual inspection.</li> <li>2. If the VOC emission limit for the coater is exceeded, the Department shall be notified in writing within 10 days of the exceedance.</li> <li>3. Accurate and understandable records of consumption, which records at least the last five years of data, shall be maintained in a permanent form suitable for inspection and shall be readily</li> </ol>	<p>ADEM Admin. Code R. 335-3-16-.05(c)(1)(ii)</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-11-.06(87)</p> <p>ADEM Admin. Code R. 335-3-16-.05(c)</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p>

Federally Enforceable Provisos	Regulations
<p>available for inspection. A copy of the following information and supporting background documentation shall be provided upon the request of the Department:</p> <ul style="list-style-type: none"> <li>(a) The type and weight in lbs. of each VOC containing material used on the coating line each calendar month</li> <li>(b) The percent by weight of VOCs of each VOC containing material used each calendar month on the coating line</li> <li>(c) The amount of VOCs emitted each calendar month expressed in the units of pounds and tons</li> <li>(d) The rolling 12 month total of VOCs emitted in units of pounds and tons.</li> </ul> <p>4. A report summarizing the information under Condition 3 of the Reporting and Recordkeeping Requirements Section shall be submitted no later than 60 days after the semi-annual period end dates of June 30 and December 31.</p> <p>5. The notifications and reports as specified in 63.3400 of Subpart JJJJ, shall be submitted, as applicable.</p> <p>6. As specified in 63.3400(b) of Subpart JJJJ, an initial notification shall be submitted no later than 1 year before the compliance date.</p> <p>7. As specified in 63.3400(c) of Subpart JJJJ, semiannual compliance reports containing the information specified in 63.3400(c)(2) shall be submitted no later than 60 days after the semi-annual period end dates of June 30 and December 31.</p> <p>8. A Notification of Compliance Status as required under 63.3400(e) of Subpart JJJJ shall be submitted as specified in 63.9(h), as applicable.</p> <p>9. Records as required under 63.3410 of Subpart JJJJ shall be maintained as applicable, upon the compliance date.</p>	<p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-11-.06(87)</p> <p>ADEM Admin. Code R. 335-3-11-.06(87)</p> <p>ADEM Admin. Code R. 335-3-11-.06(87)</p> <p>ADEM Admin. Code R. 335-3-11-.06(87)</p> <p>ADEM Admin. Code R. 335-3-11-.06(87)</p>

## Operating Permit Summary No. 28

**Emission Unit No.:** 070  
**Company:** 3M Company  
**Description:** D11 Film Line

**Permitted Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 HRS/YR

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
	D11 Film Line Resin Transport Systems each with a filter and D11 Edge Trim Baler	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
29-PV-3002	Tote Discharge	PM	0.00006 lbs/hr	335-3-14
29-PV-3007	Tote Discharge	PM	0.00006 lbs/hr	335-3-14
29-PV-3003	Charger Hopper Dust Collector	PM	0.00006 lbs/hr	335-3-14
29-PV-3004	Pellet Feeder Dust Collector	PM	0.00006 lbs/hr	335-3-14
29-PV-3005	Tote Feeder Dust Collector	PM	0.00006 lbs/hr	335-3-14
29-PV-3001	Pellet Silos Dust Collector	PM	0.0012 lbs/hr	335-3-14
29-PV-3020	Floor Scrap and Edge Trim Transport	PM	0.014 lbs/hr	335-3-14

## Provisos For D11 Film Line

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. This unit is subject to synthetic minor PSD emission limitations.</li> </ol> <p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. This source shall not discharge into the atmosphere, particulate of an opacity greater than 20% as determined by a six minute average, except for one 6 minute period in any sixty minute period of not greater than 40%.</li> <li>2. Particulate emissions from emission points 29-PV-3002, 29-PV-3007, 29-PV-3003, 29-PV-3004, and 29-PV-3005 each shall not exceed 0.00006 lbs/hr.</li> <li>3. Particulate emissions from emission point 29-PV-3001, shall not exceed 0.0012 lb/hr.</li> <li>4. Particulate emissions from emission point 29-PV-3020 shall not exceed 0.014 lbs/hr.</li> </ol> <p><i>Compliance and Performance Test Methods and Procedures</i></p> <ol style="list-style-type: none"> <li>1. Compliance with the particulate requirements shall be determined by Reference Method 5 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</li> <li>2. Compliance with the opacity requirements shall be determined by Reference Method 9 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</li> </ol> <p><i>Emission Monitoring</i></p> <ol style="list-style-type: none"> <li>1. As an indicator of compliance with the particulate and opacity emission limits, daily visual observations of each of the following emission points shall be conducted by personnel familiar with Method 9, on</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 334-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-1-.05</p> <p>ADEM Admin. Code R. 335-3-16-.05(c)(1)(ii)</p>

Federally Enforceable Provisos	Regulations
<p>days when the underlying process/emission unit is operating. If visible emissions are observed, the facility shall investigate and initiate any necessary corrective actions within 4 hours. After any corrective actions, an additional observation shall be performed in order to verify that emissions are no longer observed:</p> <p>29-PV-3001, 29-PV-3002, 29-PV-3003, 29-PV-3004, 29-PV-3005, 29-PV-3007, and 29-PV-3020</p> <p><i>Recordkeeping and Reporting Requirements</i></p> <p>1. Records of the required daily visual inspections shall be maintained and should be readily available for inspection for a period of five years. These records shall include the date and results of the visual inspections. If visible emissions are observed, the records shall include the date and time of the initial observation, a description of the corrective actions taken, the date and time of the initial corrective action attempt, and the results of the follow-up visual inspection.</p>	<p>ADEM Admin. Code R. 335-3-16-.05(c)</p>

## Operating Permit Summary No. 29

**Emission Unit Nos.:** 101

**Company:** 3M Company

**Description:** Bepex Dryer System

**Permitted Operating**

**Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
	Bepex Dryer System	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01
	Bepex Dryer System	VOC	N/A	
BP-1	Bepex Dryer System	PM	$E = 3.59P^{0.62}$	335-3-4-.04(1)

## Provisos For Bepex Dryer System

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart FFFF.</li> <li>3. This source is subject to the applicable requirements of the National Emission Standards for Miscellaneous Organic Chemicals, 40 CFR Part 63, Subpart FFFF.</li> <li>4. This source is an affected source for the MON MACT (40 CFR Part 63, Subpart FFFF). For the continuous process vents that emit hydrogen halides or halogenated HAPs for this source no control is required because the collective uncontrolled emissions are less than 1,000 lb/yr as indicated by 63.2465. Therefore, no monitoring, record-keeping, and reporting requirements would be applicable to this source under the MON MACT.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p>
<p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. This source shall not discharge into the atmosphere, particulate of any opacity greater than 20% as determined by a six minute average, except for one 6 minute period in any sixty minute period of not greater than 40%.</li> <li>2. Particulate emissions from emission point BP-1 shall not exceed the amount as noted below:  <math display="block">E = 3.59P^{0.62}</math> Where E = Emissions in lb/hr  P = Process Weight in TPH (<math>P \leq 30</math> TPH)</li> </ol>	<p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 335-3-4-.04(1)</p>
<p><i>Compliance and Performance Test Methods and Procedures</i></p> <ol style="list-style-type: none"> <li>1. Compliance with the particulate requirements shall be determined by Reference Method 5 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is</li> </ol>	<p>ADEM Admin. Code R. 335-3-1-.05</p>



## Operating Permit Summary No. 30

**Emission Unit Nos.:** 102

**Company:** 3M Company

**Description:** Building Dryer System

**Permitted Operating**

**Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
Scrubber	Building 61 Dryer	VOC	N/A	
Scrubber	Building 61 Dryer	HAP	Subpart FFFF	335-3-11-.06(83)
Cyclone	Building 61 Dryer	PM	$E = 3.59P^{0.62}$	335-3-4-.04(1)

## Provisos For Building 61 Dryer System

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart FFFF.</li> <li>3. This source is subject to the applicable requirements of the National Emission Standards for Miscellaneous Organic Chemicals, 40 CFR Part 63, Subpart FFFF.</li> <li>4. This source is an affected source for the MON MACT (40 CFR Part 63, Subpart FFFF). For the continuous process vents that emit hydrogen halides or halogenated HAPs for this source no control is required because the collective uncontrolled emissions are less than 1,000 lb/yr as indicated by 63.2465. Therefore, no monitoring, record-keeping, and reporting requirements would be applicable to this source under the MON MACT.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p>
<p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. This source shall not discharge into the atmosphere, particulate of an opacity greater than 20% as determined by a six minute average, except for one 6 minute period in any sixty minute period of not greater than 40%.</li> <li>2. Particulate emissions from the above noted sources shall not exceed the amount as noted below:  <math>E = 3.59P^{0.62}</math>  Where E = Emissions in lb/hr  P = Process Weight in TPH (<math>P \leq 30</math> TPH)</li> </ol>	<p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 335-3-4-.04(1)</p>
<p><i>Compliance and Performance Test Methods and Procedures</i></p> <ol style="list-style-type: none"> <li>1. Compliance with the particulate requirements shall be determined by Reference Method 5 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is</li> </ol>	<p>ADEM Admin. Code R. 335-3-1-.05</p>



## Operating Permit Summary No. 31

**Emission Unit Nos.:**

**Company:** 3M Company

**Description:** MON Group 2 Storage Tanks and NSPS Subpart Kb Storage Tanks

**Permitted Operating**

**Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

**Emission Limitations:**

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
494-A-07	2,000 Gallon MIBK Storage Tank	HAP	Subpart FFFF	335-3-11-.06(83)
343-A-04	10,000 Gallon Formaldehyde Storage Tank	HAP	Subpart FFFF	335-3-11-.06(83)
039d (398-A-33)	20,000 Gallon General VOC Storage Tank (398-A-33)	HAP	Subpart FFFF	335-3-11-.06(83)
039d (398-A-33)	20,000 Gallon General VOC Storage Tank (398-A-33)	VOC	Subpart Kb	335-3-10-.02(9)(b)
039c (398-A-32)	20,000 Gallon General VOC Storage Tank (398-A-32)	HAP	Subpart FFFF	335-3-11-.06(83)
039c (398-A-32)	20,000 Gallon General VOC Storage Tank (398-A-32)	VOC	Subpart Kb	335-3-10-.02(9)(b)
031	10,000 Gallon General VOC Storage Tank (398-A-29)	VOC	N/A	
039e	20,000 Gallon General VOC Storage Tank (398-A-34)	VOC	Subpart Kb	335-3-10-.02(9)(b)
039f	20,000 Gallon General VOC Storage Tank (398-A-35)	VOC	Subpart Kb	335-3-10-.02(9)(b)
039g	20,000 Gallon General VOC Storage Tank (398-A-36)	VOC	Subpart Kb	335-3-10-.02(9)(b)
039h	20,000 Gallon General VOC Storage	VOC	Subpart Kb	335-3-10-.02(9)(b)

	Tank (398-A-37)			
042	27,000 Gallon General VOC Storage Tank (1961-A-211)	VOC	Subpart Kb	335-3-10-.02(9)(b)
042	27,000 Gallon General VOC Storage Tank (1961-A-211)	HAP	Subpart FFFF	335-3-11-.06(83)
043	27,000 Gallon General VOC Storage Tank (1961-A-212)	VOC	Subpart Kb	335-3-10-.02(9)(b)
043	27,000 Gallon General VOC Storage Tank (1961-A-212)	HAP	Subpart FFFF	335-3-11-.06(83)
049	20,000 Gallon General VOC Storage Tank (398-A-53)	VOC	Subpart Kb	335-3-10-.02(9)(b)
052	20,000 Gallon General VOC Storage Tank (398-A-60)	VOC	Subpart Kb	335-3-10-.02(9)(b)
097	18,000 Gallon General VOC Storage Tank (4898-A-05)	VOC	N/A	
098	18,000 Gallon General VOC Storage Tank (4898-A-06)	VOC	N/A	
	Tank No. 343-A-04 Transfer Rack	HAP	Subpart EEEE	335-3-11-.06(82)
	Tank No. 398-A-33 Transfer Rack	HAP	Subpart EEEE	335-3-11-.06(82)

## Provisos For MON Group 2 Storage Tanks and NSPS Subpart Kb Storage Tanks

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. These sources are subject to the requirements of the General Provisions as indicated in 40 CFR Part 60, Subpart A, unless otherwise stated in 40 CFR Part 60, Subpart Kb.</li> <li>3. These sources are subject to the Federal New Source Performance Standards (NSPS) for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, as specified in 40 CFR Part 60, Subpart Kb:  398-A-34, 398-A-35, 398-A-36, 398-A-37, 1961-A-211, 1961-A-212, 398-A-53, 398-A-60, 398-A-33, and 398-A-32</li> <li>4. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart FFFF.</li> <li>5. These sources are subject to the applicable requirements of the National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing, 40 CFR Part 63, Subpart FFFF:  494-A-07, 343-A-04, 398-A-33, 398-A-32, 1961-A-211, and 1961-A-212</li> <li>6. Tanks Nos. 343-A-04 and 398-A-33 Transfer Racks are subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart EEEE.</li> <li>7. Tanks Nos. 343-A-04 and 398-A-33 Transfer Racks are subject to the requirements of the National Emission Standards for Hazardous Air Pollutant</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 335-3-10-.02(1)</p> <p>ADEM Admin. Code R. 335-3-10-.02(9)(b)</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(82)</p>

Federally Enforceable Provisos	Regulations
<p>Emissions: Organic Liquids Distribution (Non-Gasoline), Subpart EEEE</p> <p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. The maximum true vapor pressure of VOLs stored in the following Tanks shall not exceed 3.97 psia: 398-A-34, 398-A-35, 398-A-36, 398-A-37, 398-A-53, and 398-A-60</li> <li>2. The maximum true vapor pressure of VOLs stored in Tank Nos. 1961-A-211 and 1961-A-212 shall not exceed 0.00321 psia.</li> <li>3. These sources are subject to no additional provisions of 60.11b of Subpart Kb because they are an affected source under another subpart (FFFF) of Part 63. 398-A-33, 398-A-32, 1961-A-211, and 1961-A-212</li> </ol> <p><i>Compliance and Performance Test Methods and Procedures</i></p> <ol style="list-style-type: none"> <li>1. The methods and procedures for determining the maximum true vapor pressures of the materials stored in the above noted storage tanks shall be in accordance with 60.111b(f) of Subpart Kb.</li> </ol> <p><i>Emission Monitoring</i></p> <ol style="list-style-type: none"> <li>1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos.</li> </ol> <p><i>Recordkeeping and Reporting Requirements</i></p> <ol style="list-style-type: none"> <li>1. The recordkeeping requirements of 60.116b(a) and (b) of Subpart Kb shall be followed for each of these sources: 398-A-34, 398-A-35, 398-A-36, 398-A-37, 1961-A-211, 1961-A-212, 398-A-53, and 398-A-60</li> <li>2. Readily accessible records showing the dimensions and an analysis showing the capacity of each storage vessel shall be maintained for the life of the source.</li> <li>3. A record of the VOL stored, the period of storage, and the maximum true vapor pressure of the VOL during the respective storage period for the following tanks</li> </ol>	<p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p> <p>ADEM Admin. Code R. 335-3-10-.02(9)(b)</p> <p>NA</p> <p>ADEM Admin. Code R. 335-3-10-.02(9)(b)</p> <p>ADEM Admin. Code R. 335-3-10-.02(9)(b)</p> <p>ADEM Admin. Code R. 335-3-10-.02(9)(b)</p>

Federally Enforceable Provisos	Regulations
<p>shall be maintained as required by 60.116b(c) of Subpart Kb:</p> <p>398-A-34, 398-A-35, 398-A-36, 398-A-37, 398-A-53, and 398-A-60.</p> <p>4. A record of all materials stored (VOLs and nonVOLs) in the following vessels shall be maintained for a period of five years and shall be readily available for inspection:</p> <p>398-A-34, 398-A-35, 398-A-36, and 398-A-37.</p> <p>5. Reporting as specified in 63.2386(d) of Subpart EEEE shall be followed for Tank Nos. 343-A-04 and 298-A-33 Transfer Racks. This report shall be submitted no later than 60 days after the semiannual period end dates of June 30 and December 31.</p>	<p>ADEM Admin. Code R. 335-3-14</p> <p>ADEM Admin. Code R. 335-3-11-.06(82)</p>

## Operating Permit Summary No. 32

**Emission Unit Nos.:** 071

**Company:** 3M Company

**Description:** Resin Building 74

**Permitted Operating  
Schedule:**

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

### Emission Limitations:

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
	Building 74 Resin Line	HAP	Subpart JJJ	335-3-11-.06(61)
	Building 74 Raw Material Transport (Melter, Additives)	PM	$E = 3.59P^{0.62}$	335-3-4-.04(1)
	Building 74 Resin Line	VOC	15.1 lb/hr	335-3-11-.06(61)

## Provisos For Resin Building 74

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless other wise stated in 40 CFR Part 63, Subpart JJJ.</li> <li>3. This source is subject to the applicable requirements of the National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins, 40 CFR Part 63, Subpart JJJ.</li> </ol> <p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. This source shall not discharge into the atmosphere, particulate of an opacity greater than 20% as determined by a six minute average, except for one 6 minute period in any sixty minute period of not greater than 40%.</li> <li>2. Particulate emissions from the above noted sources shall not exceed the amount as noted below:  <math display="block">E=3.59P^{0.62}</math> Where E = Emissions in lb/hr  P = Process Weight in TPH (<math>P \leq 30</math> TPH)</li> <li>3. The total VOC emission rate from the resin line shall not exceed 15.1 lb/hr.</li> <li>4. The VOC and HAP emissions from this process shall be controlled by the Resin Process Heater.</li> <li>5. As indicated in 63.1322(g)(1) of Subpart JJJ, a batch mass input limitation shall be established to ensure that the emissions do not exceed 11,800 kg/yr, and, over a year, the owner/operator shall not charge a mass of HAP or material to the batch unit operation that is greater than the level established as the batch mass input limitation.</li> <li>6. The owner/operator shall comply with 63.1323(i) when process changes are made to the affected Subpart JJJ unit as specified in 63.1322(g)(1)(iv).</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(61)</p> <p>ADEM Admin. Code R. 335-3-4-.01</p> <p>ADEM Admin. Code R. 335-3-4-.04(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(61)</p> <p>ADEM Admin. Code R. 335-3-11-.06(61)</p> <p>ADEM Admin. Code R. 335-3-11-.06(61)</p> <p>ADEM Admin. Code R. 335-3-11-.06(61)</p>

Federally Enforceable Provisos	Regulations
<p>7. Liquid or solid organic materials with a concentration of greater 10,000 ppm of Table 9 compounds may not be discharged to a water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream as indicated in 63.132(f), as referenced in 63.1330(a), with the differences noted in 63.1330(b).</p> <p>8. The maintenance wastewater requirements of 63.105 shall be followed as applicable, as referenced in 63.1330(a) with the differences noted in 63.1330(c).</p> <p>9. The leak detection and repair provisions of 40 CFR Part 63, Subpart H shall be followed as referenced under 63.1331, with the differences noted in (a)(1) through (a)(13).</p>	<p>ADEM Admin. Code R. 335-3-11-.06(61)</p> <p>ADEM Admin. Code R. 335-3-11-.06(61)</p> <p>ADEM Admin. Code R. 335-3-11-.06(61)</p>
<i>Compliance and Performance Test Methods and Procedures</i>	
<p>1. Compliance with the particulate requirements shall be determined by Reference Method 5 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p>	<p>ADEM Admin. Code R. 335-3-1-.05</p>
<p>2. Compliance with the opacity requirements shall be determined by Reference Method 9 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p>	<p>ADEM Admin. Code R. 335-3-1-.05</p>
<p>3. Compliance with the VOC emission rates, unless otherwise specified by a regulation, shall be determined by Reference Method 18 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.</p>	<p>335-3-1-.05</p>
<p>4. The methods and procedures for group determinations for batch process vents as specified in 63.1323 of Subpart JJJ shall be followed as applicable.</p>	<p>ADEM Admin. Code R. 335-3-11-.06(83)</p>
<p>5. The performance test methods and procedures to determine compliance as specified in 63.1325 of Subpart JJJ shall be followed as applicable.</p>	<p>ADEM Admin. Code R. 335-3-11-.06(61)</p>
<p>6. The batch mass input limitation shall be determined using the procedures of 63.1325(g) of Subpart JJJ.</p>	<p>ADEM Admin. Code R. 335-3-11-.06(61)</p>

Federally Enforceable Provisos	Regulations
<p>7. Wastewater group determinations shall be determined in accordance with 63.132(c) as referenced by 63.1330(a), except with the differences noted in 63.1330(b).</p> <p>8. The test methods and procedures for determining applicability and Group 1/Group 2 wastewater determinations as specified in 63.144 shall be followed as applicable, as referenced by 63.1330(a) with the differences noted in 63.1330(b).</p> <p>9. Performance testing as indicated under 63.1333 of Subpart JJJ shall be followed as applicable.</p>	<p>ADEM Admin. Code R. 335-3-11-.06(61)</p> <p>ADEM Admin. Code R. 335-3-11-.06(61)</p> <p>ADEM Admin. Code R. 335-3-11-.06(61)</p>
<p><i>Emission Monitoring</i></p> <p>1. No monitoring shall be required for the Resin Line Process Heater since all the batch vent streams are introduced with the primary fuel for the process heater as noted in 63.1324(c)(3) of Subpart JJJ.</p>	<p>ADEM Admin. Code R. 335-3-11-.06(83)</p>
<p><i>Recordkeeping and Reporting Requirements</i></p> <p>1. Records shall be maintained of the operation of the process heater. These records shall be maintained in a permanent form and should be readily available for inspection for a period of five years from the date of generation.</p> <p>2. The recordkeeping requirements of 63.1326(d)(1) and the reporting requirements of 63.1327(a)(2), (b), and (c) shall be followed as applicable as indicated in 63.1322(g)(1)(iii).</p> <p>3. Records designating the established batch mass input limitation required under 63.1322(g)(1) as specified in 63.1325(g) shall be maintained and be readily accessible as required under 63.1326(d)(1)(i).</p> <p>4. Records specifying the mass of HAP or material charged to the batch unit operation shall be maintained and be readily accessible as required under 63.1326(d)(1)(ii).</p> <p>5. Whenever a process change is made which causes a Group 2 batch process vent to become a Group 1 batch process vent, the Administrator shall be notified within 180 days after the process change or</p>	<p>ADEM Admin. Code R. 335-3-11-.06(61)</p> <p>ADEM Admin. Code R. 335-3-11-.06(61)</p> <p>ADEM Admin. Code R. 335-3-11-.06(61)</p> <p>ADEM Admin. Code R. 335-3-11-.06(61)</p> <p>ADEM Admin. Code R. 335-3-11-.06(61)</p>

Federally Enforceable Provisos	Regulations
<p>with the next Periodic Report, whichever is later as specified in 63.1327(b) of Subpart JJJ.</p> <p>6. Whenever a process change is made that causes the Group 2 batch process vent with annual emissions less than 11,800 kg/yr to have annual emissions greater than or equal to 11,800 kg/yr but remains a Group 2 batch process vent, or if a process change is made that requires a redetermination of the batch mass input limitation, a report shall be made within 180 days after the process change or with the next Periodic Report, whichever is later as specified in 63.1327(c) of Subpart JJJ.</p> <p>7. The process wastewater reporting provisions as specified in 63.146 shall be followed as applicable, as referenced in 63.1330(a) with the differences noted in 63.1330(b).</p> <p>8. The process wastewater recordkeeping provisions as specified in 63.147 shall be followed as applicable, as referenced in 63.1330(a) with the differences noted in 63.1330(b).</p> <p>9. The general recordkeeping and reporting provisions of 63.1335 of Subpart JJJ shall be followed as applicable.</p> <p>10. Periodic reports as specified under 63.1335(e)(6) shall be submitted no later than 60 days after the semi-annual period end dates of June 30 and December 31.</p> <p>11. Leak Detection and Repair (LDAR) reports shall be submitted no later than 90 days after the semi-annual period end dates of June 30 and December 31.</p>	<p>ADEM Admin. Code R. 335-3-11-.06(61)</p> <p>ADEM Admin. Code R. 335-3-11-.06(61)</p> <p>ADEM Admin. Code R. 335-3-11-.06(61)</p> <p>ADEM Admin. Code R. 335-3-11-.06(61)</p> <p>ADEM Admin. Code R. 335-3-11-.06(61)</p> <p>ADEM Admin. Code R. 335-3-11-.06(61)</p>

## Operating Permit Summary No. 33

**Emission Unit Nos.:**

**Company:** 3M Company

**Description:** Emergency Generators

**Permitted Operating**

**Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

**Emission Limitations:**

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
	Emergency Generator (600 bhp) for D-10 Film Line	HAP	Subpart ZZZZ	335-3-11-.06(103)
	Two Emergency Generators (470 bhp each) for Building 74 Resin Line Heater	HAP	Subpart ZZZZ	335-3-11-.06(103)

## Provisos For Emergency Generators

Federally Enforceable Provisos	Regulations
<p><i>Applicability</i></p> <ol style="list-style-type: none"> <li>1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16, Major Source Operating Permits.</li> <li>2. These sources are subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless other wise stated in 40 CFR Part 63, Subpart ZZZZ.</li> <li>3. These sources are subject to the requirements of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR Part 63, Subpart ZZZZ.</li> </ol>	<p>ADEM Admin. Code R. 335-3-16</p> <p>ADEM Admin. Code R. 335-3-11-.06(1)</p> <p>ADEM Admin. Code R. 335-3-11-.06(103)</p>
<p><i>Emission Standards</i></p> <ol style="list-style-type: none"> <li>1. The D-10 Film Line emergency reciprocating internal combustion engine (RICE) does not have to meet any of the requirements of Subpart ZZZZ and any of the requirements of 63.1 through 63.15 of Subpart A other than the initial notification requirement of 63.6645(f) of Subpart ZZZZ as stated in 63.6590(b)(i) and 63.6665.</li> <li>2. The Resin Building 74 emergency reciprocating internal combustion engine (RICE) does not have to meet any of the requirements of 63.1 through 63.15 of Subpart A as stated in 63.6665.</li> <li>3. The Resin Building 74 emergency reciprocating internal combustion engine (RICE) must meet the requirements of Subpart ZZZZ by meeting the requirements of 40 CFR Part 60, Subpart IIII for compression ignition engines as stated in 63.6590(c). No further requirements apply under this Subpart ZZZZ.</li> <li>4. The Resin Building 74 emergency reciprocating internal combustion engine (RICE) must comply with the emission standards for new non road compression ignition (CI) engines of 60.4202 as stated in 60.4205(b) of NSPS Subpart IIII.</li> <li>5. These sources shall not discharge into the atmosphere, particulate of an opacity greater than</li> </ol>	<p>ADEM Admin. Code R. 335-3-11-.06(103)</p> <p>ADEM Admin. Code R. 335-3-11-.06(103)</p> <p>ADEM Admin. Code R. 335-3-11-.06(103)</p> <p>ADEM Admin. Code R. 335-3-10-.02(87)</p> <p>ADEM Admin. Code R. 335-3-4-.01</p>

Federally Enforceable Provisos	Regulations
<p>20% as determined by a six minute average, except for one 6 minute period in any sixty minute period of not greater than 40%.</p> <p>6. Particulate emissions from the above noted sources shall not exceed the amount as noted below:</p> <p><math>E=3.59P^{0.62}</math>  Where E = Emissions in lb/hr  P = Process Weight in TPH (<math>P \leq 30</math> TPH)</p> <p><i>Compliance and Performance Test Methods and Procedures</i></p> <p>1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos.</p> <p><i>Emission Monitoring</i></p> <p>1. The Resin Building 74 emergency reciprocating internal combustion engine (RICE) must install and operate a non-resettable hour meter as stated in 60.4209(a) of NSPS, Subpart III.</p> <p>2. The Resin Building 74 emergency reciprocating internal combustion engine (RICE) is limited to 100 hours per year for maintenance checks and readiness testing combined as stated in 60.4211(e) of NSPS, Subpart III. Also, this subpart states that there is no time limit on the use of this emergency stationary ICE in emergency situations.</p> <p><i>Recordkeeping and Reporting Requirements</i></p> <p>1. Records of the initial notification for the D-10 Film Line emergency reciprocating internal combustion engine (RICE) shall be maintained and include information in 63.9(b)(2)(i) through (v) and a statement that the stationary RICE has no additional requirements and an explanation for the basis of the exclusion. These records shall be maintained in a permanent form and should be readily available for inspection for a period of five years from the date of generation.</p> <p>2. Records for the Resin Building 74 emergency reciprocating internal combustion engine (RICE) must be keep of the operation of the engine in an emergency and non-emergency service that are recorded through the non-resettable hour meter as</p>	<p>ADEM Admin. Code R. 335-3-4-.04(1)</p> <p>N/A</p> <p>ADEM Admin. Code R. 335-3-10-.02(87)</p> <p>ADEM Admin. Code R. 335-3-10-.02(87)</p> <p>ADEM Admin. Code R. 335-3-11-.06(83)</p> <p>ADEM Admin. Code R. 335-3-10-.02(87)</p>

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<p>stated in 60.4214.(b) of NSPS, Subpart IIII. The time of operation of the engine and the reason the engine was in operation during that time shall be recorded. These records shall be maintained in a permanent form and should be readily available for inspection for a period of five years from the date of generation.</p>	

